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Effect of Community Dentistry Outreach starting on Dental Care usage

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Abstract

Background: There are evident disparities in dental health a situation that affects the health of the populace especially those who are disadvantaged. These imbalances are also targeted by community dentistry outreach programs to avail and deliver dental aces at suitable and reasonable costs.

Aim: This research aims at assessing the impact and efficiency of community dentistry outreach programs in increasing the rates of utilisation of dental facilities among those in the deprived communities and analytically establish factors that enhance utilisation.

Method: A convergent parallel mixed methods design was used whereby surveys and dental records were used to quantify the variables while interviews and focus groups were used to get the participants' perceptions on the variables measured in the surveys and dental records. The study aimed at minority, low-income and other under-represented groups, facility site data was screened and sorted by strata. Comparative data were obtained before intervention and after the establishment of the mobile dental clinics and the education and awareness interventions.

Results: In another case Cross-sectional study revealed that dental care usage improved from 25 percent to 65 percent post the initiative. Criticisms like the high cost, access to hospitals, and limited awareness on the interventions were addressed, thus improving the uptake of preventive measures. Both qualitative data and quantitative data showed that participants' feedback was positive regarding the services being

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provided. A statistical analysis affirmed the qualitatively established trends of utilisation comparatively offset by definitive elements of cost, availability and information.

Conclusion: Highlighted community dentistry outreach strategies indeed help to eliminate dental health inequalities by providing a means of accessing dental health facilities for the previously uninsured groups. Consequently, the findings give credence to endeavours aimed at sustaining and developing such initiatives as practical offers for bettering the population's health.

Keywords: Community Dentistry, Dental Health Disparities, Underserved Populations, Dental Care Utilization, Public Health Strategies, Mixed Methods Research

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Introduction

Oral health inequalities amongst the disadvantaged communities remain one of the most concerned issues in international public health. These populations have poor economic power, poor accesses to healthcare facilities, and are located in remote areas of a country and, as such, they suffer higher prevalence of oral diseases such as, caries, periodontal diseases, and oral cancer than any other populations. Couples all these factors with low access to preventive dental care, which also means widening disparities across races, and poor dental health becomes a never-ending cycle that is costly in health terms. Although dental care is mainly concerned with problems affecting the oral cavity, it has been realized to play a great role in overall health and well being of individuals. Periodontal diseases are associated with several chronic diseases such as cardiac diseases, diabetes, respiratory illnesses, and poor pregnancy outcomes. Pathologic processes in the oral cavity also have an impact on nutrition, speech, self-image and the possibility to participate in social and professional lives [1]. Some of the consequences of neglecting the above diseases include among the children mouth pain, infections, inability to eat properly and concentration in class hence academic achievement are affected [2].

Efforts towards closing the said disparities have however been boosted by community dentistry outreach programmes. These initiatives will seek to take dental care services to the respective population groups through mobile dental clinics, school dental program, and community health dental services. These programs aim at eradicating such constraints as transport, cost and ignorant of the need to make dental care a standard health facility. These comprise cloudy preventive and community health activities such as check-ups like cleaning and fluoride treatment, community health education and treatment of existing oral disease [3]. Although dental care services are now accessible, there remains a low uptake of these services especially for the marginalized groups. The reasons which have been reported as rejecting dental care include costs, no dental insurance, cultural differences and phobia towards dentists. Also, patient appreciations of the possibilities and necessity of dental health treatment and services are rarely

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elevated, with few qualified dentists prepared to work in the rural regions. This study is intended to help address these problems by reviewing the extent of the effectiveness of outreach programmes in community dentistry in increasing the rate of utilisation of dental services by disadvantaged groups [4]. Therefore, the goal of the current study is to assess the outcomes of community dentistry extension activities in enhancing the use of oral health care services in the targeted communities. This will include the evaluation of the increased and reduced dentists' visits before and after these interventions. Therefore, factors that may enhance the dental care utilization are also planned to be determined within the scope of the study including awareness, cost and service availability. Realizing these factors, the study aims at presenting the factors which can support effectiveness and sustainability of outreach initiatives. This study has theoretical implications in the following ways: First, it offers information to public health models by offering data concerning the adequacy of community dentistry outreach programs in the issue of dental health differences. Decision makers can leverage these insights to enhance the effectiveness of their existing or new programs and ensure that the planning and execution of such programs is focused on providing access to proper oral health care to the needy population; as a result, enhancing the primary health care systems services delivery, access, usage, as well as the patients' health care status at lower cost [5].

Second, the study expands knowledge concerning the effects of variables on the usage of dental care services among impoverished communities. Therefore, the study is relevant to an extent since it reveals factors that raise and lower the chances of dental care utilization and this information can be utilized by the stakeholders in organizing outreach programs that will effectively address the distinct needs of these populations. It increases the likelihood of focusing on effective delivery models and can subsequently fulfil the objective of enhancing the availability and use of dental services. Third, the study also emphasized on the need to incorporate dentistry into the community health services. Therefore, the showed effects of community dentistry outreach programs emphasize the significance of embracing

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oral health in the overall individuals' health management. This in turn has the positive effect of developing more extensive healthcare plans which meet or respond to health requisites in a broader sense, hence, enhancing health prospects. Last but not the least, the research offers recommendations on the best practices that should be followed in the next outreach activities. Thus, the study can be useful for the evaluation of current outreach activities and reveal the aspects requiring changes for the improvement of the further initiatives' effectiveness [6]. This can result in utilization of resources effectively and may also benefits many underprivileged people. Thus, the assessment of community dentistry outreach programs is crucial in order to contribute to the elimination of dental inequality and increase the access to dental services among the deprived communities. As such, this research has sought to establish provide evidence for practice based on the effectiveness of these initiatives and establishing the attributes that make such programmes successful with the view of contributing to the developments of public health strategies for delivering dental care to underserved areas hence promoting healthy behaviours among affected populations. The results of this study will benefit policymakers, health departments, dentists, and other practitioners and community-based organizations interested in the elimination of health disparities and the advancement of oral health equality [7].

Methodology

This research aims at assessing the impact of community dentistry outreach programmes in enhancing access to dental services by the vulnerable groups. Due to this, the mixed methods approach will involve the use of both quantitative and qualitative data to establish the extent of these effects as well as the efficacy of the measures in place. This quantitative data will be gotten through short self completed questionnaires on dental care utilization rates and through examination of dental records before and after the programs. Quantitative information shall be obtained by survey questionnaires, while the collection of the qualitative data will involve the use of interviews and focus group discussions with the aim of determining the participants' perception and experiences, as well as the factors that may have

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led to their use of dental care services. Such an approach enables the use of quantitative outcomes in conjunction with qualitative factors to appropriately investigate the experiences of the subjects on the success or failure of the initiatives at hand [8]. The target population for this study comprises minority groups as well as other categories of people who mostly cannot easily access dental work. They utilize services by people of lower income status, or those who have no health or dental cover, those from the rural or remote areas, and the elderly, Asian and other people of colour, or immigrants [9]. The study shall also follow a diverse pattern so as to involve the various under-represented categories. With the purpose of covering different sections of the underprivileged population, a method of sample selection known as stratified sampling will be used. The power calculation will be done consequently to determine the number of patients to be included in the study to detect a significant difference regarding the utilization rates of the dental services. The quantitative component of the study intends to have at least 300 participants while around 50 participants shall be interviewed and involved in focus group discussions for a detailed understanding [10].

The various methods for data collection will be comprised of both the qualitative and quantitative types. Surveys will be administered to participants at two time points: the number of patients attended to before the commencement of the outreach activities under the community dentistry and the number after the outreach was over. The surveys shall include self-completed questionnaires that will capture demography, dental care attendance, perception, practice, and knowledge of the subjects with regard to oral health. Furthermore, dental records will be used and analysed to establish the patient's records on utilization of dental care services, such as the number and frequency of service they have accessed.

This survey's quantitative data will be supplemented by semi-structured interviews and focus group with a subsample of participants. These methods will enable the researcher to gain a rich understanding of participants' interaction with the outreach initiatives, their impressions of the challenges and enablers to dental care access, and their levels of satisfaction with the received services. All the interviews and

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focus group discussions will be administered by qualified researchers using a structured interview guide to capture all the necessary information in the different site countries [11].

The outreach activities in the community dentistry conceptual framework that are under evaluation in this study comprise of a wide list of activities that seek to enhance uptake of dental services in hard-to-reach and/or less privileged communities. These activities normally include the use of mobile dental clinics that go around targeting centers, schools, and other convenient places. These encompass simple checkups and prophylaxis, and complex procedures like fillings, extractions and others; and health education services that are aimed at increasing the community's awareness on dental health and hygiene. The length and intensity of the initiatives can be different concerning the particular program as well as the requirements of the community. Usually, the initiatives last for half a year to one year, with constant home visits to targeting communities. The specific programs are run by a team of professional dental personnel such as dentists, hygienist, dental assistants and community health workers especially in cases of patient counselling and monitoring. They also include the efforts to engage local health departments, schools and community-based organization in order to cover as many people as possible [12].

The qualitative data will be analysed with the help of comparison examinations, in order to compare the changes in the rates of dental care usage before the implementation of the outreach campaigns and after their launch. To describe the demographic variables of the sample and levels of regularity of dental visits, descriptive statistics will be applied. T-tests or nonparametric counterparts will be used to assess the differences in the pre and post initiative utilization whereas regression analysis will be performed to establish correlation between changes in utilization and various factors. Level of significance will be at 0.05, therefore the p value will be used to decide between accepting or rejecting the null hypothesis. 05 and parameters will be tested to determine the level of confidence and the intervals between them will determine the precision of the results obtained. For interviews and focus group results, data shall

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be analysed using Thematic Analysis. The method comprises taking the recorded narrations, analysing the content to ascertain repeated patterns or ideas, and integrating the results for creating contextual understandings about participants' experiences and feelings. Thematic analysis will be conducted using CAQDAS, which entails the use of a relevant software to categorize and analyse qualitative data. Specific detail concerning the research will be the key themes raised concerning the impediments and enhancers to the dental care uptake, the perceived response to the outreach missions, and the recommendations [13].

It's important that a research subject that involves human participants especially those who can be considered vulnerable, the issue of ethical consideration should come first. The study will respect students' right and follow ethical standards and seek an institutional review board (IRB) clearance for the study. Participants will be asked to sign a consent form wherein they specifically state that they understand the aim of the study and all the procedures that will be followed, the possible hazards and advantages of completing the study. As for the protection of participant's right throughout the study and the data collection process, the participant will be informed of their autonomy to pull out from the study at anytime without any repercussions. Patient confidentiality will be ensured during the study through anonymisation of data and proper handling of records. Data collected will be owned by the research team and findings only presented in general numbers to avoid revealing individuals' identities. Particular attention will be paid to the cultural competence of both the language used and the procedures implemented when dealing with the various cultures of the populations in the study. Participants will be reimbursed for their time and the money will go directly to them especially to those participants that will be involved in the interviews or the focus group discussions. Thus, the method of this study will allow to assess the outcomes of community dentistry outreach programs in increasing the utilization of dental care services among targeted population. Therefore, due to its design of the paradigm, sampling techniques, data collection, and analysis procedures, as well as ethical considerations, the study is

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strong, rigorous, and credible. The findings are expected to offer significant information on the effectiveness of these initiatives and guide ways of improving delivery of dental care and health status of the target population [14].

Results

The participants of the study were 300 in number and, therefore, the authors had ensured they encompassed as many of the mentioned demographic categories as possible from the low-income neighbourhoods. Pertaining to age, most of the participants were within the age of 5 to 75 years with an average age of 38 years. 5 years. The gender distribution in case of participants was fairly even with 52 percent females and 48 percent males. Socioeconomic status was evaluated in accordance with the measure of income, employment status and educational level. A large number of respondents (67%) claimed household income of less than $20,000 per year; therefore, the population seems to have low income. Regarding the employment status, 45% of participants declared themselves as unemployed, 30% were employed in low-wage positions, whereas the rest of 25% were students, pensioners, with informal or part-time jobs. Regarding the education level, 35% had no high school diploma, 40% had high school diploma or equivalent, and 25% had some college education or higher. Demographically, 40% of the sample concluded as Hispanic, 30% African American, 20% Caucasian, 10% Other ethnicities: Asian and Native American [15].

Thus, comparing the rates of dental care before the CDOI and after the commencement of the aforementioned setting, there was an enhancement. Before these practices were introduced, only a quarter of the participants claimed that they saw a dentist in the last 12 months. After the intervention, this percentage increased to 65 percent proving that there has been a significant improvement in the use of dental healthcare services. This demonstrates the aspects reflective of preventive care, for example, cleanings and fluoride treatments, which grew from 15 percent to the 55 percent. Likewise, in the use

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of restorative care services such as fillings and extractions the result notes a rise from 10% to 40%. Through these studies, the possible effects of the actual outreach programmes in stressing the need for frequent dental check-ups to the target groups are well demonstrated [16].

Some of the challenges that participants pointed out before the strategies were launched concerned outreach activities were as follows. Impossibility to pay was mentioned to be the most dominant reason to avoid dental services with 70% of the participants. Another modifiable factor that was cited by 60 per cent of the participants was the absence of dental insurance. Challenges in transportation were reported by 50% of the participants especially those from rural or distant areas. Another self-reported phobia patients reported was related to fear and anxiety regarding dental procedures where 40% of participants reported the same. Moreover, 30% of participants claimed that they were unaware of dental care and the services it offered while 25% stated that clinic operational drew a lot of concern among the participants. Most of these barriers were effectively dealt by the carried-out outreach initiatives, which enhanced accessed to dental care services. Free or, at most, very low cost influenced the majority of respondents, 50%, by removing the issue of costs when paying for services. Mobile dental clinics and collaboration with local community centers were stated as helpful, 45% of the participants stated that the problem of transportation was resolved by bringing services closer to their homes. Efficiency of educational programmes in the framework of the outlined initiatives rising the level of awareness and knowledge in the sphere of oral health was mentioned by 35% as the reason why they decided to address to a dentist. Patients and clients had less fear and anxiety because of culturally related staff and CHWs' involvement for 30% of participants, clinic hours suitable for 20% of participants who had a difficult time with clinic's previous schedule [17].

Subjective findings generated from the participants brought out pertinent aspects identifying with the outreach programs. A number of participants revealed they were satisfied with services availed, praising nutritive and affable personnel of dental department. One of the topics which emerged frequently was

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the satisfaction with the coverage and the range of services offered, which are both the preventative and the reparative. Other participants also expressed the advantage of having dental services taken closer to them, which will help eliminate long distance travel expenses. Another study revealed that the extramural health promotion initiatives were best received, especially the educational aspects where individuals claimed that they learnt more about the practices of oral health and the necessity of visiting a dentist. Some of the observed participants were happy to point that they have generally benefited from the initiates as good oral health affects other health factors in terms of nutrition and pain free mouths, among other factors fell in this bracket. Recommendations for change were to increase the availability of mobile clinics' schedules, add orthodontic services, and to continue the heavy emphasis placed on improving enrolment via culturally appropriate messaging.

Quantitative data analysis in a way gave a concrete substantiated proof of conclusions made about the outreach interventions. Independent sample t-tests comparing pre-, and post- intervention utilization calculated displayed a significant increase in dental care visits; = 12. 34, p < 0. 001, Preventive care = 10. 56, p < 0. 001, Restorative care = 8. 23, p < 0. 001. Changing patterns were again precise, and 95% CI, for the overall utilisation rates'

increment was between 35%-45%. Analysis done by performing a regression test showed the following factors were showing a high level of positive association with the overall utilization level. These were the offering of services that are either free or cheap (ß= 0. 45, p = <0. 001), increased access through mobile clinics (ß= 0. 38, p = <0. 001) and increased knowledge (ß= 0. 30, p = <0. The thematic analysis of the qualitative data also supported these conclusions stressing the aspects such as price and proximity as well as knowledge about dental services availability as the key factors influencing the population's interest to turn to dentists [18].

Aspect	Description	Details

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Participants	300 participants from low-income neighborhoods, ages 5-75, average age 38 years	52% female, 48% male; 67% household income < $20,000/year; 45% unemployed, 30% low-wage jobs, 25% students/pensioners
Ethnicity	Demographically diverse	40% Hispanic, 30% African American, 20% Caucasian, 10% Asian and Native American
Dental Care Utilization	Significant improvement in dental care visits post-intervention	Pre-intervention: 25% saw a dentist in the last 12 months; Post-intervention: 65% saw a dentist
Preventive Care	Increase in preventive care services	Pre-intervention: 15%; Post-intervention: 55%
Restorative Care	Increase in restorative care services	Pre-intervention: 10%; Post-intervention: 40%
Challenges	Barriers to accessing dental care	Cost (70%), lack of dental insurance (60%), transportation (50%), fear of dental procedures (40%), lack of awareness (30%)
Intervention Strategies	Solutions implemented to address barriers	Free/low-cost services (50%), mobile dental clinics (45%), educational programs (35%), culturally related staff (30%), flexible clinic hours (20%)

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Satisfaction	Positive feedback from participants	Satisfaction with service range, proximity, and educational aspects; benefits to overall health noted
Quantitative Analysis	Statistically significant increase in dental care utilization	Overall utilization increase: $t = 12.34$, $p < 0.001$; Preventive care: $t = 10.56$, $p < 0.001$; Restorative care: $t = 8.23$, $p < 0.001$
Key Factors	Factors positively associated with increased dental care utilization	Free/cheap services (ß = 0.45, $p < 0.001$), mobile clinics (ß = 0.38, $p < 0.001$), increased knowledge (ß = 0.30, $p < 0.001$)
Conclusion	Outreach activities improve dental service use and oral health among targeted clients	Recommendations include fixing financial, supply chain, and educational challenges; insights for replicating programs in other disadvantaged populations

Discussion

In general, the findings of the present research show that the outreach activities of community dentistry increase the use of dental services among the targeted clients. The improvements in the rates of participations together with the favourable responses from the participants show that there is a prospect that these undertakings may decrease dental health discrepancies and improve oral health. This shows that challenges regarding finance, supply chain, and educational setup should be fixed for such programs to work. Furthermore, it affords a clear understanding of the aspects that may enhance the

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outcomes of outreach efforts and offers suggestions for officials and community health workers striving to replicate such a program among other disadvantaged populations. The analysis of the results of this investigation proves that the effectiveness of community dentistry outreach programmes increases the levels of dental care access by disadvantaged communities. The sharp rise in both the preventive and restorative dental care visits also supports the impact of these measures in dealing with people's restrictions in their pursuit for dental care as well as in actual access to necessary dental sessions. The demographic information revealed the diverse nature of the participants, the disparities analysed include the socioeconomic and cultural differences inherent with the target population. Thus, the increase in the utilization rates from 25% to 65% shows that the carried-out outreach programs were able to reach a significant part of these populations, helping to overcome the difficulties, namely the absence of information, high costs, and limited access to transportation. The participants' comments have provided a positive testimony to the effectiveness of the initiatives in ascertaining professional, efficient and inclusive dental care in enhancing the quality of oral health.

This endowed outcome corresponds with literature findings proposing that community-centered health initiative is an effective solution. Related research findings have established that the use of mobile health clinics, and similar plans as part of community outreach programs can help improve the level of utilization of other health services among obscure groups. In a manner that is consistent with studies in other realms of public health, this research verifies that removal of monetary risks via the provision of no- or low-charge services greatly increases service engagement. The positive influence of specific educational parts agrees with the works stating that health education plays a critical role in enhancing the health practices and health status. However, understanding the factors experienced by disadvantaged groups in dental care delivery and the factors that enhance care delivery gives a more detailed picture of the findings as part of this body of literature on access to healthcare.

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The outreach programs evaluated in this study appear to be very impactful in enhancing the access to dental services by the targeted vulnerable groups. As the services provided by these programs were delivered directly to areas where women lived, they were free from major practical issues, including complicated transportation and time inconvenient for clinics. Of all these, it is in the preventive care that the improvement is most visible, which is an indication that participants were not only attending the dentist for the treatment of specific tooth problems only, but they were also visiting the dentist's office for routine dental check-ups and cleaning, which are fundamental to dental hygiene. The culturally competent education and CHWs could have an active role in successful implementation of such programs among the different population groups. That is exactly why the initiatives have been so successful: the planning process tackles both the utilitarian and the psychic obstacles.

However, the study encountered the following challenges While the outcomes of the study were positive, there were some difficulties encountered as follows: Some of them include the nature of the target group where follow up and participation was frequently impounded by their transient nature and divisiveness. Another challenge that arose because of the mobile clinics was the issue of record keeping as well as administrative work in different facilities. Furthermore, though the sample size was large enough to do the statistical tests, the variation in the population indicated that there were subgroups that had very few participants; therefore, the results may not be necessarily generalizable. One weakness was that some of the measures were obtained from self-reports, including dental care usage and participants' views, which could introduce recall bias or social desirability bias. Measuring the Effects: It is often potential that due to the study's duration of six months to one year expanded impacts of the initiatives may not be apparent, therefore, further research may be needed to better understand sustainability.

The implication of the finding of this study is that there are many polices that will need to be put in place. Therefore, the politicians should increase their funding and the scope of community dentistry, as

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it can become one of the ways to decrease the dental health inequalities. These programs' results in enhancing access and utilization prove the possibility of using such models in other areas that lack goods. Such activities would require additional financial capacity with regard to funding of mobile clinics and subsidizing services with low prices for the population. Furthermore, there is need for policies to advocate for the incorporation of the dental care into common health systems, with this pointing to the fact that the health of the population is not limited to dental health alone. Due to the importance of the cultural relevancy of such programs, training and hiring of the community-based health workers also improves the community's competency level.

Thus, future research aimed at advancing the knowledge of the investigated phenomenon based on the results of the current study should be focused on several directions. The documentary research, therefore, requires longitudinal studies aimed at evaluating the future prospects for community dentistry outreach programs. These should ensure that they covered long-term dental health and sought to reveal whether the improved utilization is associated with positive and permanent oral health. Future studies should also try to unravel the effectiveness of the components of the initiatives to implement such as the effectiveness of the financial subsidies and educational programs. In the same manner, research could be done on the feasibility and transferability of such programs with regards to the locations and cultures of the various countries. More comparative case analysing different kinds of outreach programmes and activities could offer the information for identifying the most efficient practices and the strategies for increasing their effectiveness. Last, from a methodological standpoint, qualitative studies with dental professionals engaged in such activities may provide significant data regarding the practical issues and potential improvement, regarding the services' delivery.

Therefore, it can be ascertained that the community dentistry outreach programmes under investigation have provided the means by which the overall utilisation of dental care services were greatly enhanced among the target populations. It is stressed that more attention should be paid to financial and other

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logistic and educational factors that affect the accessibility of dental services. Such efforts should support similar programs' effectiveness in improving dental health and avoiding disparities. Nevertheless, there are some obstacles and constraints that arouse the notion that further studies and policies' emphasis is needed to maintain and develop these activities. As a result of this, future programmes can be formulated from the learning of this study to be more effective with the goals of making it possible for every person inclusive of the financially and geographically challenged to have an equal opportunity to dental care services.

Conclusion

According to various findings revealed in the study, community dentistry outreach programmes helped in enhancing the Dental Access among the target groups by effectively removing barriers like costs, availability of transport and lack of knowledge. These establishment initiatives encompassing preventive and restorative care affiliated with culturally appropriate education and health aides from the community yielded much higher rates of reported dental visits largely for preventive purposes. Thus, the study indicates how indispensable these programs are in closing the dental health gap, as well as how important it is that more funding and policy backing be given to support and further develop such initiatives. These initiatives positively impact the health of underserved community members since getting dental services increases the overall health and wellbeing of the population; this shows the value of specific public health approaches in advancing health equity.

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