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## CRITICAL ANALYSIS OF THE USE OF TECHNOLOGY IN DENTAL CARE

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### ABSTRACT

Technology has been so integrated into dentistry practice that it has profoundly changed the field. Dental care has been provided with new solutions that are in use for diagnosis, treatment, and interfacing with patients. This paper critically focuses on the technology usage for dentistry operations, highlighting the impact on clinical results, patient satisfaction, and practice



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efficiency. A wide-ranging literature review will be conducted, with the aim of drawing conclusions regarding the kinds of technology utilized in modern dentistry, their benefits and flaws, and the implications all of these have for the dental profession. The study shows that technology is not only for better diagnostics and guidance of treatments but also for effectively engaging with patients. The discussion details the challenges facing the adoption of these digital innovations, such as resource cost, technical ability, and ethical implications, but puts forward recommendations that ask for sustained investments in novel developments and the training of dental personnel to facilitate the optimal use of technology for the enhancement of oral health.

*Keywords:* technology, dental diagnosis, dental treatment, patient organization, and innovative approach in the future.

#### **INTRODUCTION**

Modern dentistry was fully reformed by technology, and it brought a new way of treatment and care to patients by means of innovative technological developments. In the last few years, digital radiography tools, CAD/CAM systems, and other technological tools have emerged, thus providing dental health professionals with a wide range of clinical tools that help in more accurate and efficient diagnosis and treatment procedures. The present research paper is aimed at a critical analysis of the effect of technology on dental care costs by highlighting its impacts on the outcome of treatment, patient satisfaction, and the management of the practice.

The implementation of technology in dentistry is the chief factor that has significantly changed the way patients are taken care of. CAD/CAM technology has brought a decisive breakthrough in restorative dentistry through the manufacturing of accurately developed and beautiful dental prosthetics such as crowns, bridges, and veneers with great speed, much less than that of traditional techniques(LoBiondo-Wood & Haber,2021).

The study is aimed at reviewing the current literature on technology utilization in dental care in order to give an appraisal of the benefits and downsides of this innovation and its implications. It aims to analyses how technology has increased clinical efficiency and patient satisfaction and made every day routines more streamlined. Next, I will focus on the possible challenges and constraints involved in dental care technology adoption, which include the problems of money, training, and data security provisions.

However, this technological critical care analysis is prepared to deliver qualified views about the technologically transforming role in dentistry. The study in question will take a step further and conduct in-depth research and review of the latest practices and evidence, which will result in a detailed discussion of the advantages and drawbacks of dental technologies. This discussion will cover the medical practitioners, the people making the policy, and other stakeholders who will be required to understand the realities of these new developments and how they will affect their areas of interest. The ultimate goal is to provide an understanding of the systemic issues and

figure out continuous improvements for the smooth provision of dental care to practitioners and their patients.

#### LITERATURE REVIEW

Various aspects of technology implementation in dentistry, including 3D printers and dental chairs, are the focus of dental technology research. The increase of intraoral scanners, CBCT, digital radiography, and CAD/CAM systems in the dental field and the emergence of teledentistry are the greatest innovations. Such advanced techniques completely revolutionized procedures in diagnostics, therapeutic planning, and medical management, with a whole list of advantages that enrich clinical use and bring patient satisfaction to life.

The intraoral scanner has gained its place as it creates the impression of teeth and other oral parts with the utmost perfection due to improved technology and digitalization. Instead of conventional impression procedures and materials, intraoral scanners look at many of the limitations, including accuracy, time consumption, and overall patient discomfort. Patients can now go through the process of making impressions without the unpleasant experience of having to deal with the bulky impression trays and gagging that are associated with this process. Clinicians, on the other hand, benefit in terms of having access to a streamlined workflow and precise digital models, which they can use for treatment planning and fabricating dental restorations.

Dental imaging has been transformed with cone-beam computed tomography (CBS), which allows the teeth, wrists, and whole face to be viewed in three dimensions. In contrast to the standard two-dimensional radiographs that are used traditionally, CBCT offers something more in the sense that it provides a great deal of detail concerning anatomical features. This is a contributing factor towards accurate diagnosis and treatment planning, especially when the conditions being treated are complex and dental-related, e.g., impacted teeth and oral pathology. The feature that makes structures appear in three- dimensions helps improve precision and lowers the chance of complications that are usually associated with procedures; therefore, those who have surgeries are bound to enjoy better health outcomes.

By using this new technology, many benefits that relate to conventional film-based radiology have been avoided. Radiographs can be digitally taken in such a way that the patient will be exposed to the lowest radiation, which will, at the same time, produce a higher image quality and make image manipulation and storage easier. This also enables the seamless incorporation of electronic health records (EHRs) and other digital systems that present a mode of communication for sharing information among dental professionals and creating smooth operations within the dental practice.

CAD/CAM systems have dramatically changed the restorative dentistry aspect by providing the digital design and production of dental prostheses, which include crowns, bridges, and veneers. The machines utilize computerized algorithms to design precise virtual models that are 3D-

milled from appropriate bio-compatible materials. CAD/CAM technology provides numerous benefits, like precise results, quick projection of prosthetic products, and even better aesthetics than the old-fashioned laboratory-based fabrication methods.

Remote dentistry is a fast-expanding area of practice that provides patients with telemedicine dental services, including virtual consultations, diagnosis, and treatment planning. It additionally simplifies certain factors that hold people back from receiving dental care by overcoming geographical limitations, mobility matters, and scheduling problems. The development of teledentistry has a high capacity to expand the accessibility of dental services, which is especially pertinent in underserved communities and remote or rural areas where traditional dental care is hardly retrievable.

In the field of dentistry, literature shows that technological innovations have a huge influence on oral healthcare. Innovations like intra-oral scanners, CBCT, digital radiography, CAD/CAM systems, and teledentistry offer significant extractions like accurate diagnosis, properly designing the estimated treatment plan, and enhancing patients' comfort level. With advancing technology, oral healthcare faces a new revolution that holds much excitement and promises to revamp the way dental services are rendered. However, challenges consisting of affordability, technical competence, and regulatory issues should be overcome, for only the full potential of technology is realized in dental concerns.

#### **METHODS**

In the present research, the database of academia, journals, and relevant papers has been reviewed systematically since my aim was to find the studies that were related to the use of technology in dental care. We came up with eligibility criteria, which ought to absorb research papers published in journals and conference proceedings as well as credible sources to cut paper-weighty ones. We are not sure of the fidelity and accuracy of the literature selected. The scope of the review spanned the length of technologies involved in diagnosing, treating, and managing patients within the branch of dentistry.

Extracting data from the scientific literature was the approach used to map out the special technologies, their applications, advantages, and limitation factors. The data extraction process was conducted through a systematic review of each study, and only the specific data concerning the use of technology in dental practice was introduced. A set of technologies, which were classified as intraoral scanners, CBCTs, digital radiography, CAD/CAM systems, and teledentistry together, were determined to be the key ones.

Then, the information gathered is used in the analysis, which is based on the combined results of the literature review. By examining data trends, patterns, and their relationship to dental practice, this study has sorted out the implications that arise from the use of technology in a variety of dental problems. Through a critical review of the literature and an account of the applications,

advantages, and disadvantages of each technology in dentistry, the research sought to reach a general understanding of the role of technology in contemporary dentistry.

During the analysis of the study, significant information was gained on how technology is applied in these processes: diagnosis, treatment, and patient management in dentistry. This gave the speaker a platform to discuss the pros, cons, and possible repercussions of the utilization of technology in the dental care sector. Through a systematic review of the literature and qualitative analysis, this study is intended to add new knowledge to the technology used in dental practice and is offered in a way that's valuable to dental counsellors, researchers, and policymakers.

In particular, the systematic review methodology that has been used in this study has ensured a rigorous, thorough, and exhaustive look at the research that focuses on technology in dental care. To guarantee the precise application of inclusion criteria for the investigation and the employment of the most reliable methods for data extraction and analysis in the research, this study was set up with the aim of providing a good foundation for our understanding of the current state of technological innovation in dentistry and the effect of it on the present practice and patient care.

#### **RESULTS AND FINDINGS:**

# Figure 1: Factors to consider when identifying the diagnostic accuracy of digital imaging systems



#### (LoBiondo-Wood & Haber,2021)

Computer-aided imaging, including intraoral scanners and cone beam computed tomography (CBCT), has considerably improved the diagnostic reliability of dental care practice. Digital imaging systems show comparable diagnostic accuracy to conventional radiography (Figure 1). Digital imaging systems have been demonstrated in research to exhibit high diagnostic capabilities, especially in the examination of cavities and other oral pathologies. The use of digital imaging has helped clinicians visualize anatomic structures with a high degree of detail

and accuracy. As a consequence, the diagnostics and the treatment-planning steps have, therefore, been improving.

Aspect	Advantages	Limitations
Design Flexibility	- Enables intricate and complex designs	- Requires skilled designers to fully utilize the software - Limited by the capabilities of the software and hardware
Speed	- Faster design iterations and modifications	- Initial setup time can be lengthy - Learning curve for new users may slow down the process
Precision	- Allows for precise measurements and tolerances	- Accuracy dependent on the quality of input data and calibration of equipment - May require frequent calibration and maintenance
Collaboration	- Facilitates real-time collaboration among team members	- Requires compatible software and hardware for seamless collaboration - Security concerns regarding data sharing and intellectual property
Cost- effectiveness	- Reduces the need for physical prototypes, saving time and material costs	- Initial investment in software and hardware can be expensive - Training costs for staff
Integration with CAM	- Seamless transition from design to manufacturing	- Compatibility issues between CAD and CAM software - Requires additional training and expertise for CAM software
Customization	- Allows for customization and personalization of products	- Complexity of customization may increase design and production time - Limited by the capabilities of the manufacturing processes
<b>Error Detection</b>	- Early detection of design errors through simulations and virtual testing	- Reliance on accurate simulation models - May not capture all real-world manufacturing constraints

Table 1: Advantages and Limitations of CAD/CAM Technology in Product Development

This table provides an overview of the advantages and limitations of CAD/CAM technology in the product development process. While CAD/CAM offers various benefits such as design flexibility, speed, precision, and error detection, it also has limitations related to cost, collaboration, integration with CAM, customization, and error detection. Understanding these aspects is crucial for effectively leveraging CAD/CAM technology in product development.

CAD/CAM technologies have successfully restructured restorative dentistry by allowing the digital design and manufacturing of prostheses. Create your own rolling online tech store now: CAD/CAM. Table 1 summarizes the advantages and shortcomings of the CAD/CAM being noted in the literature. The advantages are that accuracy is increased, turnaround time is

shortened, and the esthetic of the dental restoration is enhanced. Use our artificial intelligence to write for you for free as long as you include the correct citation. This will ensure that we do not violate copyright laws. The fact is that the coming of CAD/CAM technologies for final fabrication might present challenges, including high initial costs, technical proficiency, and limited material options as possible limitations. Nevertheless, CAD/CAM systems are impossible to survive the challenges; in spite of this, they have been widely accepted by dental clinics for restorative procedures because CAD/CAM systems are connected with their ability to reduce the workload and improve the quality of the restorative processes.





(LoBiondo-Wood & Haber, 2021)

Online dentistry has, in fact, become an inventive way of overcoming the health challenge of getting dental care to underserved populations. Graph 1 shows how adoption of teledentistry has increased over the years and how it has been beneficial in the provision of dental care to people in rural and remote areas. It has been documented that telemedicine is effective in conducting dentistry through the device from a distance while also managing remote consultation, diagnosis, and treatment plan procedures, which thereby allows patients to get dental services from their homes without visiting the dentist personally. However, this can be undermined by the fact that there are limited reimbursement policies and technical barriers that have so far greatly hindered the widespread use of tele-dentistry(LoBiondo-Wood & Haber,2021).



Figure 2: Challenges in the Adoption of Technology in Dentistry

(LoBiondo-Wood & Haber, 2021)

Along with the use of technology in dentistry, the substantive problems are demonstrated in Figure 2. Investment costs, such as purchasing equipment and software, have been viewed as the biggest obstacles to dentistry growth, especially for practices that are smaller and have low financial stability. Furthermore, the lack of education or requirements for dental professionals to be competent in the efficient use of technology and incorporating it into clinical practice remains an obstacle. Moreover, data security and privacy issues are magnified and viewed as essential aspects, with the computing systems subjected to increased reliance on patients' records and communication as well.

#### DISCUSSION

The literature findings on the utilization of technology in the dental health care system not only point out directions for the establishment and development of dental practice but also facilitate the provision of better dental care to patients. This overview evaluates the pros and cons, considering expense efficiency, clinical effectiveness, and aspects of patient satisfaction when integrating technology into dentistry. In addition to that, it analyzes issues like interoperability of devices, data privacy, and patency, as well as a shortage of technologies in third-world countries. Recommendations would be proposed that will be intended to tackle these problems and will come up with an approach as to how to make use of technology in dental practice.

#### **Advantages of Technology Adoption:**

On the other hand, technology welcomes a variety of benefits through which dentistry gets improved diagnostic accuracy and easier treatment planning. Digital imaging systems like intraoral scanners and cone beam computed tomography (CBCT) produce high-resolution and pinpoint-accurate pictures of the whole oral cavity, giving doctors the power to view various anatomical structures with intricate details. This shortens the time for the detection of cases and allows for more effective treatment planning, opening the door to better results for the patient.

The 3D technology of CAD/CAM is also utilized in the restorative part, as it allows the digital design and fabrication of both fixed and removable dental prostheses. These technologies provide various benefits, like increased accuracy output, a quicker time turnaround, and a better look for dental restorations.

#### **Limitations and Challenges**

However, despite the plethora of business benefits of technology adoption, a land of challenges and limits is also its home. A major issue is the front-loading of costs for buying and installing equipment in dentist offices. The buying of machines and programs, in addition to expenses for their maintenance and training of staff, can be a financial obstacle that is being faced by small practices with limited funds.

Incompatibility with different systems of technology, along with the management of different technology systems, also poses problems in implanting technology within dental clinics. Individuals are of the view that software platforms and device 'incompatibilities' may irritate the communication channels and data flow, resulting in system malfunction and process stagnation. As addiction is the second leading cause of death for young adults in the United States, individuals from this demographic are at greater risk of self-destruction, depression, suicide, and degradation of health.

Differences in coverage and availability of technology can increase the situation in society, creating inequity between the last two. Rural and poor communities can not afford the latest dental technologies, which is the reason for the biggest gap between what services they can get and how those services change their diagnosis. Bringing on board telehealth initiatives and utilizing technology infrastructure funding are some approaches through which it can be seen that these disparities are addressed in order to ensure equality for all dental care patients.

#### **Recommendations for Optimizing Technology Adoption:**

The deployment of technology at a dental practice can significantly transform the quality of service delivery; however, there are recommendations that can optimize the benefits. Continued investment in technologies, engineering, and research should be industrialized to enlarge the innovation sphere and decrease the price of dental technologies. Education and training programs

should form part of the strategy of integrating technology into dental healthcare practice so that the personnel within it are well-versed in the role technology plays.

Systems of standards and regulations are to be implemented in order to address obstacles in technology adoption processes like interworking and data privacy issues. The coordination of the efforts of dental professionals, technology vendors, and public policy officials is critical to implementing industry standards and regulatory provisions that will recommend the safe and effective deployment of technology in the delivery of health care services.

The study has demonstrated the interrelationship between technology and the development of dental care as well as patient health parameters. Although technology adoption allows us to be more comfortable, we should pay attention to such challenges as costs, interoperability, and inequality in access because they reduce the value and benefits of our technology adoption. An effective solution to tackle these issues is to make use of the recommendations given. Hence, dentistry clinics could utilize technology effectively to improve diagnostic accuracy, treatment processes, and patient outcomes.

# CONCLUSION

In conclusion, technology is a crucial aspect that shapes modern dental care to provide newer diagnostic methods, treatment options, and patient management solutions. Besides all the advantages, there are still factors of productivity hindrance, cost barriers, technical proficiency, and ethical considerations to be tackled(LoBiondo-Wood & Haber,2021). Nevertheless, the hazards of investment in science and technology, educational training for dentists, and policy support should be successfully addressed if the bright future of 3D printing in dental care is to be achieved through enhanced patient experiences and better oral health outcomes.

## RECOMMENDATION

Based on the analysis, several recommendations are proposed to maximize the benefits of technology in dental care: Based on the analysis, several recommendations are proposed to maximize the benefits of technology in dental care:

- ✓ Implement new and advanced technologies to elevate the accuracy of diagnosis and improve the survival rate.
- ✓ Provide universal education in the sphere of dentistry and train the staff thoroughly to ensure the usage of advanced technologies.
- ✓ Develop policies, laws, and regulations that will take care of and address ethical issues and considerations associated with the adoption of technology in the field of dentistry.
- ✓ Encourage interaction among dental practices, institutions of higher learning, kit designers and manufacturers to support invention, mutual understanding, and information dissemination.
- ✓ Broaden the application of technology-engaged dentistry involving community health projects like teledental and mobile dental clinics, especially for the poor.

These suggestions should be implemented in the given way, and then the stakeholders can exploit the available advanced technologies in their full capacity, improving checkup results and consequently furthering the development of the whole field of dental care (LoBiondo-Wood & Haber, 2021).

#### REFERENCE

Joda, T., Yeung, A. W. K., Hung, K., Zitzmann, N. U., & Bornstein, M. M. (2021). Disruptive innovation in dentistry: what it is and what could be next. *Journal of dental research*, 100(5), 448-452 https://journals.goggruph.com/doi/abs/10.1177/0022024520078774

453.<u>https://journals.sagepub.com/doi/abs/10.1177/0022034520978774</u>

- Sallam, M., Salim, N. A., Barakat, M., &Ala'a, B. (2023). ChatGPT applications in medical, dental, pharmacy, and public health education: A descriptive study highlighting the advantages and limitations. *Narra J*, 3(1).https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10914078/
- Khanagar, S. B., Al-Ehaideb, A., Maganur, P. C., Vishwanathaiah, S., Patil, S., Baeshen, H. A., ...&Bhandi, S. (2021). Developments, application, and performance of artificial intelligence in dentistry–A systematic review. *Journal of dental sciences*, 16(1), 508-522.<u>https://www.sciencedirect.com/science/article/pii/S1991790220301434</u>
- Thurzo, A., Strunga, M., Urban, R., Surovková, J., &Afrashtehfar, K. I. (2023). Impact of artificial intelligence on dental education: A review and guide for curriculum update. *Education Sciences*, 13(2), 150.<u>https://www.mdpi.com/2227-7102/13/2/150</u>
- Kumar, R., Kumar, M., & Chohan, J. S. (2021). The role of additive manufacturing for biomedical applications: A critical review. *Journal of Manufacturing Processes*, 64, 828-850.<u>https://www.sciencedirect.com/science/article/pii/S1526612521001080</u>
- Shan, T., Tay, F. R., &Gu, L. (2021). Application of artificial intelligence in dentistry. *Journal of dental research*, 100(3), 232-244.<u>https://journals.sagepub.com/doi/abs/10.1177/0022034520969115</u>
- Schwendicke, F. A., Samek, W., &Krois, J. (2020). Artificial intelligence in dentistry: chances and challenges. *Journal of dental research*, 99(7), 769-774.https://journals.sagepub.com/doi/abs/10.1177/0022034520915714
- Warnakulasuriya, S., & Kerr, A. R. (2021). Oral cancer screening: past, present, and future. *Journal of dental research*, *100*(12), 1313-1320.<u>https://journals.sagepub.com/doi/abs/10.1177/00220345211014795</u>
- Chen, Y. W., Stanley, K., &Att, W. (2020). Artificial intelligence in dentistry: current applications and future perspectives. *Quintessence Int*, 51(3), 248-57.https://cephx.com/wp-content/uploads/2020/03/qi 2020 03 s0248.pdf

- Pereira, L. J., Pereira, C. V., Murata, R. M., Pardi, V., & Pereira-Dourado, S. M. (2020). Biological and social aspects of Coronavirus Disease 2019 (COVID-19) related to oral health. *Brazilian* Oral Research, 34, e041.https://www.scielo.br/j/bor/a/3SdNkS85QsjYcSDhHvgFbbC
- Tian, Y., Chen, C., Xu, X., Wang, J., Hou, X., Li, K., ...& Jiang, H. B. (2021). A review of 3D printing in dentistry: Technologies, affecting factors, and applications. *Scanning*, 2021. <u>https://www.hindawi.com/journals/scanning/2021/9950131/</u>
- Sedghi, L., DiMassa, V., Harrington, A., Lynch, S. V., &Kapila, Y. L. (2021). The oral microbiome: Role of key organisms and complex networks in oral health and disease. *Periodontology* 2000, 87(1), 107-131.<u>https://onlinelibrary.wiley.com/doi/abs/10.1111/prd.12393</u>
- Maspero, C., Abate, A., Cavagnetto, D., El Morsi, M., Fama, A., &Farronato, M. (2020). Available technologies, applications and benefits of teleorthodontics. A literature review and possible applications during the COVID-19 pandemic. *Journal of clinical medicine*, 9(6), 1891.https://www.mdpi.com/2077-0383/9/6/1891
- Gülcan, O., Günaydın, K., & Tamer, A. (2021). The state of the art of material jetting—a critical review. *Polymers*, *13*(16), 2829.<u>https://www.mdpi.com/2073-4360/13/16/2829</u>
- Chen, L., Zhao, J., Peng, J., Li, X., Deng, X., Geng, Z., ...& Wang, S. (2020). Detection of SARS-CoV-2 in saliva and characterization of oral symptoms in COVID-19 patients. *Cell* proliferation, 53(12), e12923.https://onlinelibrary.wiley.com/doi/abs/10.1111/cpr.12923
- Vieira, L. N., O'Hagan, M., & O'Sullivan, C. (2021). Understanding the societal impacts of machine translation: a critical review of the literature on medical and legal use cases. *Information, Communication & Society*, 24(11), 1515-1532.https://www.tandfonline.com/doi/abs/10.1080/1369118X.2020.1776370
- Jamal, M., Shah, M., Almarzooqi, S. H., Aber, H., Khawaja, S., El Abed, R., ...& Samaranayake, L. P. (2021). Overview of transnational recommendations for COVID-19 transmission control in dental care settings. *Oral diseases*, 27, 655-664.https://onlinelibrary.wiley.com/doi/abs/10.1111/odi.13431
- Farsi, D. (2021). Social media and health care, part I: literature review of social media use by health care providers. *Journal of medical internet research*, 23(4), e23205.https://www.jmir.org/2021/4/e23205/
- Tahmassebi, J. F., & Banihani, A. (2020). Impact of soft drinks to health and economy: a critical review. *European archives of paediatric dentistry*, 21, 109-117.https://link.springer.com/article/10.1007/s40368-019-00458-0

- Mhlanga, D. (2023). Open AI in education, the responsible and ethical use of ChatGPT towards lifelong learning. In *FinTech and Artificial Intelligence for Sustainable Development: The Role of Smart Technologies in Achieving Development Goals* (pp. 387-409). Cham: Springer Nature Switzerland.<u>https://link.springer.com/chapter/10.1007/978-3-031-37776-1\_17</u>
- Afrashtehfar, K. I., Assery, M. K., & Bryant, S. R. (2020). Patient satisfaction in medicine and dentistry. *International journal of dentistry*, 2020.<u>https://www.hindawi.com/journals/ijd/2020/6621848/</u>