

**DIGITAL INFRASTRUCTURE AND READINESS FOR ARTIFICIAL INTELLIGENCE (AI) -
ENABLED DENTISTRY: TECHNOLOGY ADOPTION AND BARRIERS AMONG DENTAL
PRACTITIONERS IN BENGALURU, INDIA**

SECTION 1: DEMOGRAPHIC INFORMATION

1. Age
 1. less than 30
 2. 31 - 40 years
 3. 41 - 50 years
 4. 51 - 60 years
 5. 60+ years
2. Gender
 1. Male
 2. Female
3. How many years have you been practicing dentistry?
 1. 0-5 years
 2. 6-10 years
 3. 11-15 years
 4. 16-20 years
 5. Over 20 years
4. What type of dental practice do you work in?
 1. Private Practice
 2. Government
 3. Academic Institution
 4. Combination with any of the above

SECTION 2: ADOPTION OF DIGITAL TECHNOLOGIES

5. Which of the following digital technologies are used in your practice? (Check all that apply)
 1. CAD/CAM (Computer-Aided Design/Computer-Aided Manufacturing)
 2. Digital Radiography (X-rays)
 3. Intraoral Cameras
 4. Electronic Health Records (EHR)
 5. Digital Impressions
 6. Cone Beam Computed Tomography (CBCT)
6. How frequently do you use the following technologies?

	Daily	Weekly	Monthly	Rarely	Never
CAD/CAM					
Digital Radiograph					
Intraoral Cameras					
Electronic Health Records					
Digital Impression					
Cone Beam Computed Tomograph					

SECTION 3: DETAILED USAGE AND EXPERIENCE

7. For how long have you been using the following technologies in your practice?

	Less than 1 year	1-3 years	4-6 years	7-10 years	Over 10 years
CAD/CAM					
Digital Radiograph					
Intraoral Cameras					
Electronic Health Records					
Digital Impression					
Cone Beam Computed Tomograph					

8. How would you rate your overall satisfaction with the following technologies?

	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied
CAD/CAM					
Digital Radiograph					
Intraoral Cameras					
Electronic Health Records					
Digital Impression					
Cone Beam Computed Tomograph					

9. How likely are you to recommend these technologies to other dental practitioners?

1. Very Likely
2. Likely
3. Neutral
4. Unlikely
5. Very Unlikely

SECTION 4: IMPACT AND BENEFITS

10. What benefits have you observed from using digital technologies in your practice? (Check all that apply)

1. Improved diagnostic accuracy
2. Enhanced patient communication
3. Increased practice efficiency
4. Better treatment outcomes
5. Reduced operational costs
6. Improved record-keeping and data management

11. To what extent do you agree with the following statements?

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Digital technologies have significantly improved patient					
The use of digital technologies has increased practice					
Patients appreciate the use of advanced digital technologies					
Implementing digital technologies has been cost-effective for					
Training and integrating digital technologies into practice					

SECTION 5: CHALLENGES AND BARRIERS

12. What challenges have you encountered in adopting digital technologies? (Check all that apply)

1. High initial costs
2. Ongoing maintenance and upgrade costs
3. Lack of training or expertise
4. Resistance from staff
5. Integration with existing systems
6. Technical issues and downtime

13. What factors would most encourage you to adopt more digital technologies in your practice? (Check all that apply)

1. Lower costs
2. Better training programs
3. Demonstrated benefits and return on investment
4. Improved integration with current systems
5. Positive feedback from peers and patients
6. Financial incentives or grants

SECTION 6: FUTURE OUTLOOK

14. How likely are you to invest in additional digital technologies in the next 2-3 years?

1. Very Likely
2. Likely
3. Neutral
4. Unlikely
5. Very Unlikely

15. Which digital technologies are you most interested in adopting in the future? (Check all that apply)

1. Advanced CAD/CAM systems
2. 3D Printing

3. Artificial Intelligence for diagnostics and treatment planning
4. Advanced digital imaging systems
5. Enhanced electronic health record systems
6. Teledentistry tools
7. Other...

SECTION 7: TRAINING AND SUPPORT

16. How was the training for using the digital technologies provided? (Check all that apply)
 1. In-house training by a specialist
 2. External training courses
 3. Online tutorials and webinars
 4. Manufacturer-provided training
 5. Peer-to-peer training
17. How effective was the training in preparing you to use these technologies?
 1. Very Effective
 2. Effective
 3. Neutral
 4. Ineffective
 5. Very Ineffective
18. What additional training or support would be beneficial for you and your staff? (Check all that apply)
 1. More comprehensive initial training
 2. Ongoing training and updates
 3. Access to online resources and tutorials
 4. Hands-on workshops
 5. Technical support hotline

SECTION 8: PATIENT EXPERIENCE

19. How have your patients responded to the use of digital technologies in your practice?
 1. Very Positively
 2. Positively
 3. Neutral
 4. Negatively
 5. Very Negatively
20. Do you provide patients with information about the digital technologies used in their care?
 1. Yes, always
 2. Yes, sometimes
 3. Rarely
 4. No, never
21. How do you think the use of digital technologies has impacted patient satisfaction?
 1. Significantly Increased
 2. Increased
 3. No Impact
 4. Decreased
 5. Significantly Decreased

SECTION 9: COST AND FINANCIAL CONSIDERATIONS

22. How do you perceive the cost of adopting digital technologies relative to their benefits?

1. Very Cost-Effective
2. Cost-Effective
3. Neutral
4. Costly
5. Very Costly

23. Have you experienced any financial return on investment (ROI) from the use of digital technologies?

1. Significant ROI
2. Moderate ROI
3. Minimal ROI
4. No ROI
5. Negative ROI