



# ALNOVA AI

# INFORMATIONAL

# OVERVIEW

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**A Clinical Workflow & Patient  
Engagement Platform for Modern  
Orthodontic Practices**



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# Introduction

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Orthodontic care is increasingly shaped by digital expectations, regulatory requirements, and the need for operational efficiency. Today's patients expect transparency, real-time feedback, and continuous engagement throughout treatment, while clinicians must balance these expectations against clinical accuracy, data protection, and staff workload.

Despite advances in digital imaging and aligner therapy, many orthodontic practices still rely on fragmented systems for communication, progress tracking, education, and compliance documentation. These disconnected workflows increase administrative burden, introduce variability in patient adherence, and create unnecessary clinical and operational risk.

Alnova AI was developed specifically to address these challenges by providing a purpose-built, compliance-ready digital platform designed for orthodontic workflows—not generic healthcare software retrofitted for dentistry.



## The Evolving Orthodontic Practice

# Clinical Challenges

While digital tools have become commonplace in most work ecosystems, the majority of available solutions are either too generic or too narrowly focused to meet the complex demands of clinical operations, dental schools, and research institutions. The following pain points highlight where current solutions fall short and why an industry-specific approach is needed.



## **Fragmented Patient Management**

Many practices use separate tools for:

- Patient communication (email, SMS, messaging apps)
- Progress documentation
- Education and instructions
- Consent and compliance records

This fragmentation increases the risk of missed follow-ups, inconsistent documentation, and reduced clinical visibility across the treatment timeline.



## **Patient Adherence and Treatment Variability**

Non-compliance with aligner wear, elastic use, or oral hygiene protocols remains a leading cause of:

- Extended treatment times
- Mid-course corrections
- Additional chair time

Traditional reminder systems alone are insufficient to sustain long-term behavioral adherence.

# Clinical Challenges

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## Administrative and Staff Burden

Manual onboarding, repetitive follow-ups, and progress checks consume significant staff time, often 5–7 hours per week, without directly contributing to clinical outcomes.



## Regulatory and Data Security Risk

Orthodontic practices manage sensitive personal health information (PHI) and must comply with:

- HIPAA (United States)
- PIPEDA (Canada)
- GDPR (European Union, where applicable)

Many general SaaS platforms are not designed with compliance-by-design principles, exposing practices to legal, financial, and reputational risk.



## Purpose-Built for Orthodontic Care

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Alnova AI is a next-generation orthodontic workflow, communication, and patient engagement platform purpose-built for modern clinical practice. It is designed to support the full orthodontic treatment lifecycle, from patient onboarding and education to progress monitoring and long-term adherence, while integrating seamlessly with existing clinical and administrative systems.

Rather than replacing established practice management or imaging platforms, Alnova AI enhances orthodontic care by creating a secure, automated, and patient-centric digital layer that connects patients, clinicians, and staff in real time. By streamlining communication, standardizing workflows, and reinforcing patient compliance, Alnova AI helps orthodontic teams improve treatment efficiency, reduce administrative burden, and deliver a more consistent, high-quality patient experience without disrupting clinical routines.



# Core Clinical Capabilities



## **Comprehensive Patient Management**

Alnova AI centralizes the orthodontic patient journey:

- Digital onboarding and consent workflows
- Personalized patient profiles
- Secure communication channels
- Centralized documentation

This unified structure reduces duplication, improves continuity of care, and ensures consistent clinical documentation.



## **Advanced Progress Tracking**

Clinicians gain real-time visibility into treatment progression through:

- Visual timelines and milestones
- Automated progress checkpoints
- Remote monitoring and patient-reported updates

This allows orthodontists to identify issues earlier, intervene proactively, and optimize treatment efficiency without increasing chair time.



## **Gamified Engagement and Behavioral Reinforcement**

Behavioral science principles are integrated through a gamified rewards system that:

- Reinforces positive patient behavior
- Encourages consistent adherence
- Improves long-term compliance by 15–20%

This approach moves beyond reminders and actively motivates patients to participate in their own treatment success.



# Automation as a Clinical Advantage

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Automation within Alnova AI is designed to support clinical excellence, not replace clinical judgment.

Automated workflows:

- Reduce manual data entry errors
- Enforce standardized documentation
- Ensure consistent application of best practices

By minimizing administrative distractions, clinicians and staff can focus on patient care, treatment planning, and clinical decision-making



# Compliance and Data Security



## **Built-In Regulatory Alignment**

Alnova AI is designed with compliance embedded at the architectural level, supporting:

- HIPAA
- PIPEDA
- GDPR

This includes encryption, access controls, audit trails, and breach-response readiness, rather than retroactive compliance measures.



## **Technical Safeguards**

Key security features include:

- End-to-end encryption (AES-256 at rest, TLS 1.3 in transit)
- Role-based access control (RBAC)
- Multi-factor authentication (MFA)
- Secure cloud infrastructure hosted by SOC 2 and ISO 27001-certified providers
- Continuous vulnerability scanning and penetration testing

These safeguards protect patient data while maintaining accessibility for authorized clinical users.



# Clinical and Business Impact

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Orthodontic practices using Alnova AI can expect measurable improvements across clinical and operational domains:

- Time savings: 5–7 hours per week through automation
- Improved adherence: 15–20% increase in patient compliance
- Higher retention and referrals: 10–15% improvement driven by better patient experience
- Reduced risk: Lower exposure to compliance violations and data breaches

Collectively, these outcomes contribute to improved clinical predictability, patient satisfaction, and sustainable practice growth.





# Designed for Scalability and Growth

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Alnova AI is suitable for:

- Independent orthodontic practices
- Multi-location clinics
- Orthodontic groups and DSOs

The platform scales with practice size while maintaining consistent workflows, compliance standards, and patient experience.





## Conclusion: Supporting Clinical Excellence in the Digital Era

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Digital transformation in orthodontics must do more than digitize existing inefficiencies. It must enhance clinical decision-making, protect patient trust, and improve treatment outcomes.

By combining automation, secure data management, and patient engagement in a single orthodontic-focused platform, Alnova AI enables clinicians to deliver care that is:

- More efficient
- More compliant
- More patient-centered

Alnova AI is not simply a productivity tool—it is a clinical support framework designed to help orthodontic practices meet the demands of modern care while preserving the highest standards of professionalism and trust





## Contact Us

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Elevate your practice, streamline your team, and wow your patients with a smarter orthodontic system built to grow your clinic. Connect with us today to learn more.



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