

Restore Dental Implements Enhanced Digital Orthodontic and Clear Aligner Protocols in Houston

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Restore Dental has officially completed an expansion of its orthodontic department at its Houston facility, integrating new high-resolution intraoral optical scanning hardware and updated computer-guided clear aligner planning software. Operational as of fall 2026, the clinical overhaul increases the practice's diagnostic capacity, adds dedicated scanning operatories, and introduces expanded clinical protocols for patients seeking clear aligner therapy utilizing Invisalign in Houston to address mild-to-complex dental malocclusions.

Under the direction of Dr. John Russell, the facility added two specialized digital scanning operatories and onboarded additional clinical support staff to accommodate rising patient volume. The fall 2026 operational update integrates direct diagnostic software interfaces that streamline treatment planning for a broad range of alignment cases, including interdental crowding, spacing, deep bites, open bites, and crossbites. The physical expansion and workflow restructuring shorten preliminary wait times and allow for immediate diagnostic imaging during initial patient evaluations.

Clear aligner systems function by applying targeted, sequential mechanical forces to shift teeth into designated anatomical positions over time. The updated intake workflow incorporates 3D intraoral optical scanning to generate high-definition digital topographies of the dental arches. This digital scanning process replaces traditional elastomeric impression trays in most standard clinical circumstances, though physical impression materials may still be required based on specific patient anatomy or severe gag reflex considerations. Computer-aided design software processes these spatial data points to calculate micro-movement staging, producing a sequential series of custom-molded thermoplastic aligners worn progressively by the patient.

To accomplish complex tooth movements?such as premolar rotation, root torque, or vertical extrusion?the clinical protocol incorporates engineered composite resin attachments bonded directly to specific enamel surfaces. These tooth-colored attachments function as mechanical handles, allowing the aligner to deliver precise directional vectors. Because the aligners are removable, patients can perform routine brushing and interdental flossing during meals and home care. While removable appliances eliminate the physical brackets

that traditionally trap plaque and food debris, the reduction of secondary risks such as enamel decalcification, white spot lesions, or localized gingivitis remains dependent on individual home hygiene habits, diet, and strict adherence to daily wear schedules.

The clinical update also reinforces mandatory pre-treatment screening protocols to evaluate systemic and localized oral health factors before applying orthodontic forces. Clinicians assess alveolar bone height, root morphology, and temporomandibular joint dynamics through low-dose digital radiographs and clinical examination. Any pre-existing periodontal inflammation, active decay, or subgingival calculus must be resolved prior to starting aligner therapy, as applying mechanical pressure to compromised periodontium can accelerate localized bone loss.

Furthermore, the screening workflow incorporates a comprehensive review of the patient's medical history to identify systemic conditions, metabolic bone disorders, or chronic prescription drug usage?such as long-term bisphosphonate or immunosuppressive therapy?that could alter bone remodeling rates or impede physiological tooth movement. Clinicians conduct a thorough extraoral and intraoral neuromuscular assessment to evaluate masticatory muscle tenderness, jaw tracking, and joint sounds, ensuring that pre-existing temporomandibular joint dysfunction (TMD) is identified and stabilized before clear aligner wear begins.

Digital periodontal probing and gingival biotype assessments are also integrated into this initial diagnostic phase to identify thin tissue biotypes or areas of mucogingival vulnerability that may require precautionary monitoring or soft-tissue grafting prior to expansion maneuvers. Throughout active care, scheduled progress examinations monitor soft-tissue response, verify proper seating of the aligners, evaluate attachment integrity, and ensure that tooth movement matches the projected digital treatment plan before advancing to subsequent aligner stages.

In conjunction with the facility expansion, Restore Dental updated its patient education framework to focus on compliance requirements and post-treatment stabilization. Consultations review daily compliance metrics, emphasizing the clinical necessity of wearing aligners for twenty-two hours per day to achieve planned outcomes. Patients receive instruction on appliance hygiene to prevent bacterial accumulation and discoloration, as well as post-treatment retention protocols. Following active tooth movement, patients are fitted with clear thermoplastic retainers or fixed lingual retention wires to support periodontal ligament stabilization as surrounding bone remineralizes around the altered tooth positions. Prospective patients seeking diagnostic evaluations, bite assessments, or treatment plans using Invisalign in Houston can access telephone scheduling and educational clinical resources through Restore Dental's primary office in Texas.

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