

# Invisalign Technology

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## Introduction

Adult patients are often averse to wearing traditional fixed appliances with wires, bands and brackets. Invisalign system makes it possible for orthodontists to offer adult patients requiring full mouth orthodontic treatment an esthetically agreeable solution using computer assisted technology that produces a series of plastic overlays. Clear plastic overlay appliances take variety of form: retainers, night guards, TMJ splints and bleaching trays. This needs dental technician to manually do and are both costly and vulnerable to human error and inaccuracies. Recent developments in technology made it possible with Invisalign system with the help of single impression.

## Procedure

1. To create a final setup
2. Project stages of tooth movement from initial state to the final state.
3. Create a series of clear, custom made appliances called "aligners" that move the teeth according to the projected stages of movement.

## Patients selection

Should have fully erupted permanent teeth with growth completed.

Full time wear is mandatory.

## Records

Study casts, photographs and radiographs.

For impressions, polyvinyl siloxane impression material is used because it yields highly accurate impression that remains stable for as long as 3 w and allow multiple pours.

The impression and wax bite are sent to Align technology with a detailed treatment planning form.

Align technology produces a three-dimensional computer image from the impressions and performs a "Virtual treatment" using a software program.

A graphic version of the treatment is made available for the treating orthodontists to download from Internet and view on a personal computer.

The clinician provides feedback on proposed final position of intermediate tooth movements to align technology and adjustment are made until the orthodontist is satisfied with treatment plan and perspective results.

Once it is approved. Align technology fabricates a set of clear plastic aligners. They are of 0.030" in thickness.



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Each pair of upper and lower aligners. (Single-arch treatment is also an option) incorporates small adjustment allowing 0.25 to 0.33 mm of movement.

Number of aligners per patient depends on number of stages required to complete.

The aligners are sent to the orthodontist who delivers them to the patient with the instructions for use. These appliances should be

worn 20 -22 h per day and should be removed only for eating, drinking, brushing and flossing.

Patient wears each pair of aligners for 1-2 w before moving on to the next pair in the series.

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