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A new methodology for aesthetic aligners' development that benefits patients and doctors

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Patients and doctors commonly experience several clinical problems when using complete pre-generated aligners. Changes of the dental anatomy by restorations, prosthetics, fractures or even tooth loss may compromise the sequence of aligners. Poorly used or lost aligners by patients tend to delay and compromise treatment outcomes, demanding reposition trays. Often, the orthodontic treatment objectives and plan may change during treatment. In these situations aligners may be discarded and the treatment restarts. Some patients may experience severe pain with aligners. Relieving the pain along the treatment with pre-sets of aligners is very difficult. Severe cases may need refinement trays, therefore a new impression must be submitted and the treatment can only be continued after a long period of time. A new method was invented to manage and solve these problems. The big breakthrough is that, a new impression must be made every four months, allowing clinical procedures to be done along the orthodontic treatment. Two trays with different thickness induce dental movement through the month for each arch, in case of loss; a backup aligner is available in every stage. A four-month window of opportunity is open to change the treatment plan, average amount of tooth movement and incorporate any anatomic dental change. The refinement is done along the treatment, not at the end. Since 2008, this technique has been proving great clinical results, treating different malocclusions and giving a comfortable experience for patients.

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