



F42 Forensic Odontological Assessment of Unsuccessful Five Year Orthodontic Treatment of an Adult Patient

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The goal of this presentation is to show the importance of a precise treatment plan, examination of condition and orthodontic function, and the results of improvisational therapy.

The thirty-two-year-old male patient approached the institute in order to determine whether or not his five year long orthodontic therapy was professionally administered, why his dental condition worsened instead of improved – mastication problems and aesthetic dissatisfaction occurred.

Without exact aim the patient's retained 13 (FDI) tooth was extracted prior to orthodontic treatment. For undetermined reasons further extractions were indicated and performed for 34 and 44 teeth also. In light of the fact that over many years quite a few dentists examined him. The patient's "tongue thrust" (infantile) swallow was NOT diagnosed.

The inferior space closure was partially successful. Because of decrease in total inferior space, lingual resting position became unsatisfactory, interarch wedging occurred resulting in circular non-occlusion with relation to the superior arch. The ankylotic 14 premolar caused further problems. Misdiagnosis of this resulted in the extraction of 15 tooth, seizure of 14 tooth distalization was foreseen with this procedure. Because of the ankylosis, the archal expansion between the 12 and 14 teeth over the five year period was unsuccessful.

The 16 molar partially anteriorised, but because of the intended extraction of the ankylotic premolar (14) this tooth became positioned in infraocclusion and thus the circular non-occlusion extended from 16 to 25 teeth resulting in unsatisfactory mastication and speech defects.

Within the framework of the authors' analysis they assessed that the unilateral (right) maxilla hypotrophia exist which most probably caused the canine retention. During five years of orthodontic treatment this fact was not realized. Hemifacial atrophy, and unilateral extractions further increased the aesthetic disadvantages, and this resulted in a wide black corridor during smiling.

The case will be illustrated with excellent color pictures.

Hemifacial Atrophy, Dental Ankylosis, Dental Malpractice