Invisalign® Summit
November 2014

Dr. Ray Kubisch
Advanced Workshop: Addressing the Challenges of Complex Teen, Multidisciplinary, and Extraction Treatment
Anterior teeth Intrusion:

1) Identify the “Line of Reciprocation”: Intrusion/Extrusion Interface

   Lower

   Upper: Lower/Upper Anterior: Consider anchorage attachments (Occlusal beveled or G5) posterior to line such as #'s 20, 21, 28 & 29. Minimal attachments (Optimized on #'s 22 & 27) on or anterior to line on where intruding.

2) Failure to intrude:

   Resistance to intrusion force: If vertical overlap is severe with “Restricted Envelope of Function” with open inter-incisal angle and upright retroclined orientation, a possible failure to intrude is present. This is an indication for Bite Turbos. Allows Pressure Areas to alter force direction to long axis of teeth being intruded. Resistance to Pressure Areas: Look for labial wear facets.

Posterior Teeth Intrusion:

Anterior Teeth Extrusion:

“Line of Reciprocation” (Intrusion/Extrusion Interface) Anchorage attachments (Horizontal Occlusal Beveled) are still placed to hold aligners in place. Occlusal biting force also provides anchorage support. BUT Anterior To Line, Extrusion Attachments Are Needed.

Translation:

Translation requires movement of the Moment of force toward the apex to reduce tipping. Remember that translating a tooth the entire site can take twice as long as closing an extraction site from both ends of the site.
Invisalign® Summit
November 2014

Dr. Hiroshi Samoto
Advanced Workshop: Addressing the Challenges of Complex Teen, Multidisciplinary, and Extraction Treatment
Can you feel the ascension of orthodontics?

- New Method for Extraction and Molar Distalization with Invisalign

HIROSHI SAMOTO
DDS, PhD

Education  Nihon University School of Dentistry (Japan)

In addition to maintaining a private practice in Tokyo and Osaka, Dr. Samoto lectures and conducts seminars for dental professionals about Invisalign in Japan, Europe, China, Singapore and other overseas countries. He is a clinical speaker for Invisalign and a member of the APAC Invisalign Clinical Advisory Board.

• Invisalign Provider since 2006
• 2012 Invisalign International Gallery Peer Review Award 1st place
• 2013 Invisalign International Gallery Peer Review Award 1st, 2nd place
• 2014 Invisalign International Gallery Peer Review Award 1st, 2nd, 3rd place

Recent Article

THE CUTTING EDGE in JCO
A Customized Staging Procedure to Improve the Predictability of Space Closure with Sequential Aligners

HIROSHI SAMOTO  VICKI VLASKALIC

J Clinical Orthodontics. 2014 Vol48 Number06: Page 359-367
**Today’s Cases**

I will be presenting 11 cases, including 3 four premolar extraction cases.

<table>
<thead>
<tr>
<th>CASE No.</th>
<th>Molar relation</th>
<th>Ext. or Non Ext.</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Open Bite</td>
<td>Class I</td>
<td>Non Extraction</td>
</tr>
<tr>
<td>2</td>
<td>Open Bite</td>
<td>Class III</td>
<td>Non Extraction</td>
</tr>
<tr>
<td>3</td>
<td>Upper Protrusion</td>
<td>Class II</td>
<td>Non Extraction</td>
</tr>
<tr>
<td>4</td>
<td>Anterior Crossbite</td>
<td>Class III</td>
<td>Non Extraction</td>
</tr>
<tr>
<td>5</td>
<td>Upper Protrusion</td>
<td>Full Class II</td>
<td>Non Extraction</td>
</tr>
<tr>
<td>6</td>
<td>Upper Protrusion</td>
<td>Full Class II</td>
<td>Non Extraction</td>
</tr>
<tr>
<td>7</td>
<td>Deep Bite</td>
<td>Full Class II</td>
<td>Non Extraction</td>
</tr>
<tr>
<td>8</td>
<td>Deep Bite</td>
<td>Full Class II</td>
<td>Non Extraction</td>
</tr>
<tr>
<td>9</td>
<td>Open Bite</td>
<td>Class II</td>
<td>4 Premolar Extraction</td>
</tr>
<tr>
<td>10</td>
<td>Crowding</td>
<td>Class I</td>
<td>4 Premolar Extraction</td>
</tr>
<tr>
<td>11</td>
<td>Crowding</td>
<td>Class I</td>
<td>4 Premolar Extraction</td>
</tr>
</tbody>
</table>

Through these cases, I would like to share on the following topics:

1. Treating skeletal open bite cases with Invisalign with no extraction and no surgery
2. Absolute extrusion of anterior teeth in a severe open bite case
3. Whole teeth movement using elastics
4. Molar distalization with Invisalign in full class 2 molar relationship
5. Full class 2 deep bite case using Invisalign
6. Treating four first premolar extraction cases with Invisalign alone
7. Treating four 2nd premolar extraction cases with Invisalign alone