Tekscan®

T-Scan®

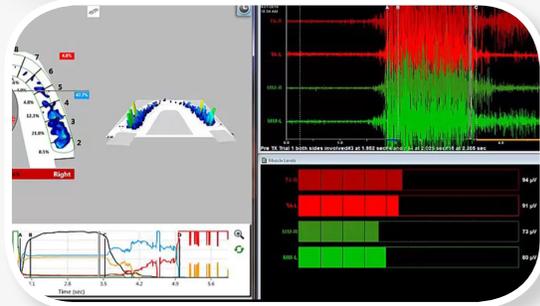## DISCLUSION TIME REDUCTION (DTR) THERAPY

Using T-Scan® to perform DTR Therapy allows the clinician to:

- Identify overly engaged contacts during excursive movements

- Evaluate how muscles are firing during bite cycles

- Verify occlusal contacts that could be contributing to TMD symptoms

- Use data to guide adjustment procedures

- Objectively analyze the timing of disclusion

Disclusion Time Reduction (DTR) Therapy is a specialized dental treatment procedure that requires the use of T-Scan® in tandem with an EMG link to evaluate occlusal forces in relation to muscle activity.

The diagnostic phase of DTR uses T-Scan's force and timing measurement data to identify occlusal contacts that may be overly engaging during excursive movements (a problem that can lead to hyperactive muscles and TMD symptoms). The clinician will evaluate the time it takes for the posterior teeth to disengage during excursive movements and correlate it to muscle activity in real time.

The treatment phase of DTR Therapy requires computer-guided adjustments with a goal to reduce excessive posterior periodontal ligament compressions by reducing the disclusion time (per unit in time) to under 0.5 seconds. The desired result is to have the muscles return to baseline activity, reducing lactic acid production and myalgic pain.

Immediate Complete Anterior Guidance Development (ICAGD) is the occlusal adjustment procedure used to perform DTR Therapy.

BEFORE

Note: Disclusion time is 1.34 seconds, as indicated by activity between C and D lines

BEFORE

Note: Significant muscle activity pre-Disclusion Time Reduction calculated in microvolts

AFTER

Note: Disclusion time is 0.34 seconds after ICAGD adjustment

AFTER

Note Post-DTR Therapy muscle activity: Right temporalis decreased 85%; Left temporalis increased 16%; Right masseter decreased 46%; Left masseter decreased 61%

> "NOW WITH OUR LATEST FORAY INTO THE DTR AND T-SCAN, I AM SEEING SOME OF THE MISTAKES I HAVE MADE IN THE PAST, SOME OF THE ASSUMPTIONS THAT WERE WRONG. WITH THIS TECHNOLOGY, WE ARE HELPING PEOPLE THAT WE HAVEN'T BEEN ABLE TO HELP BEFORE."
>
> *Dr. Rick Coker, DDS, FACE*

Tekscan®

> CONTACT US FOR PUBLISHED RESEARCH STUDIES ABOUT DTR THERAPY!