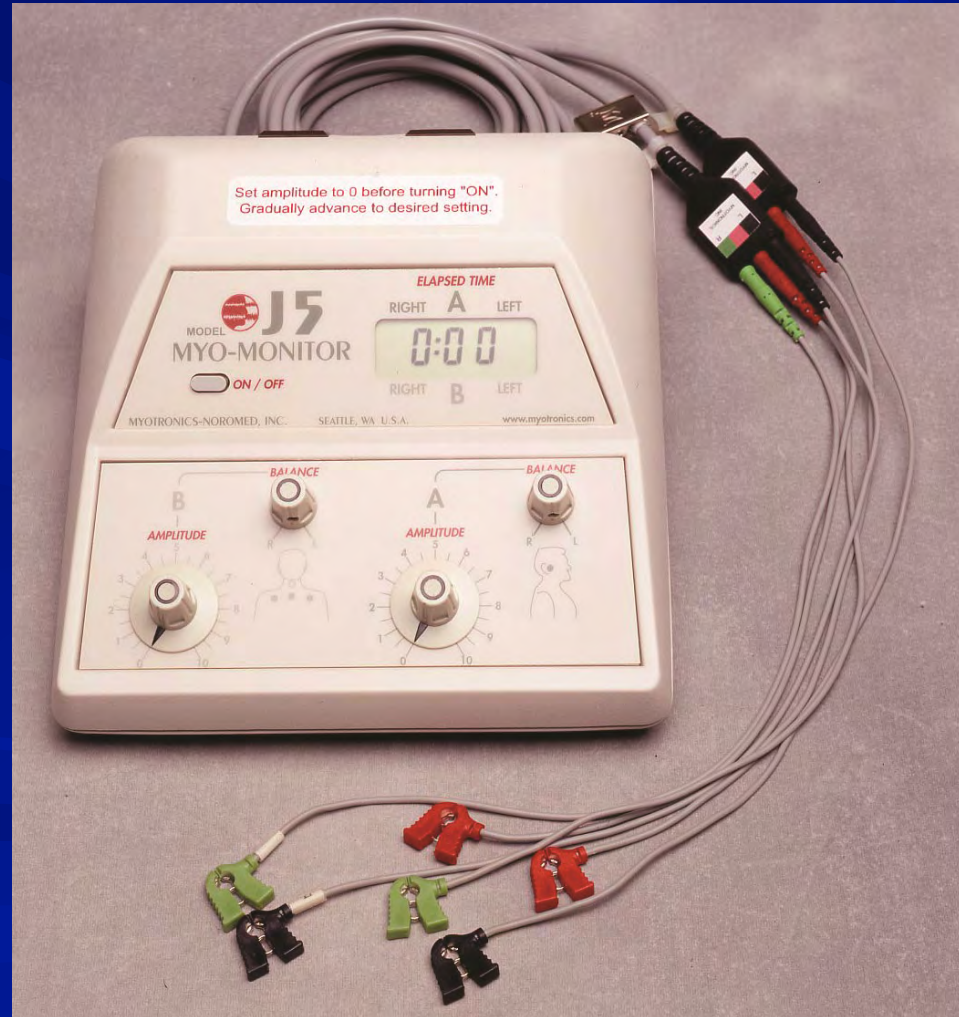
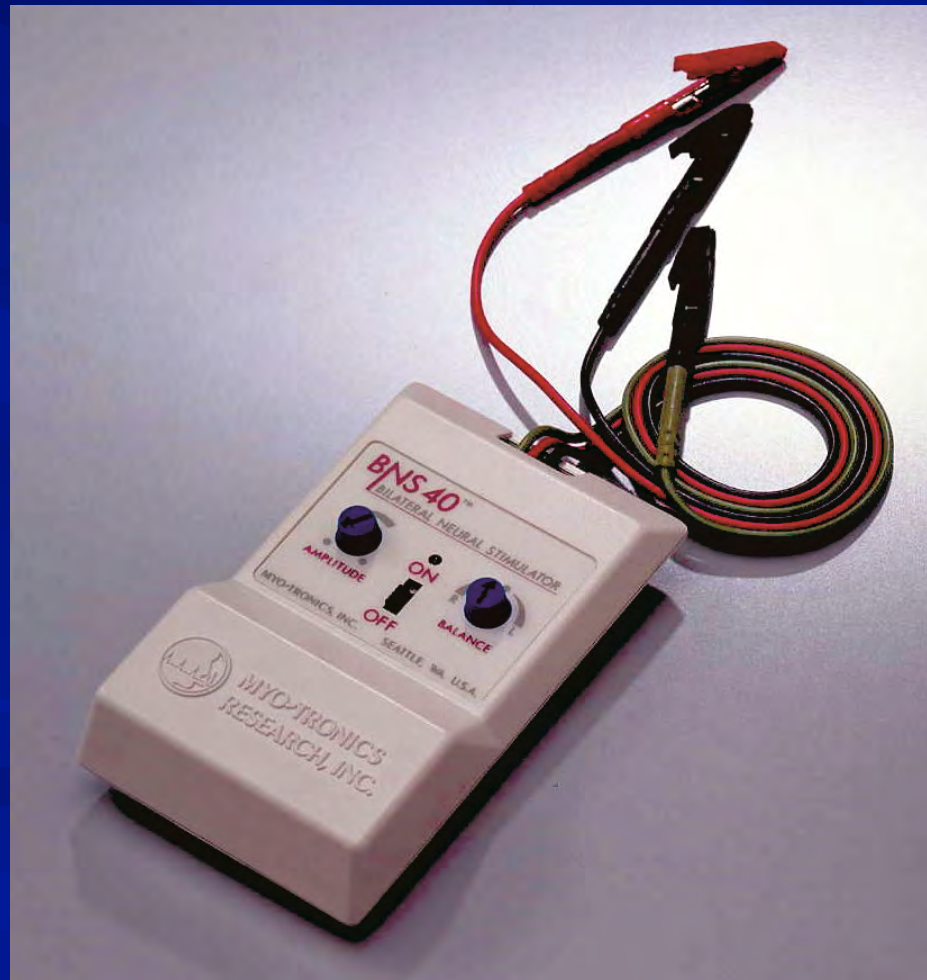


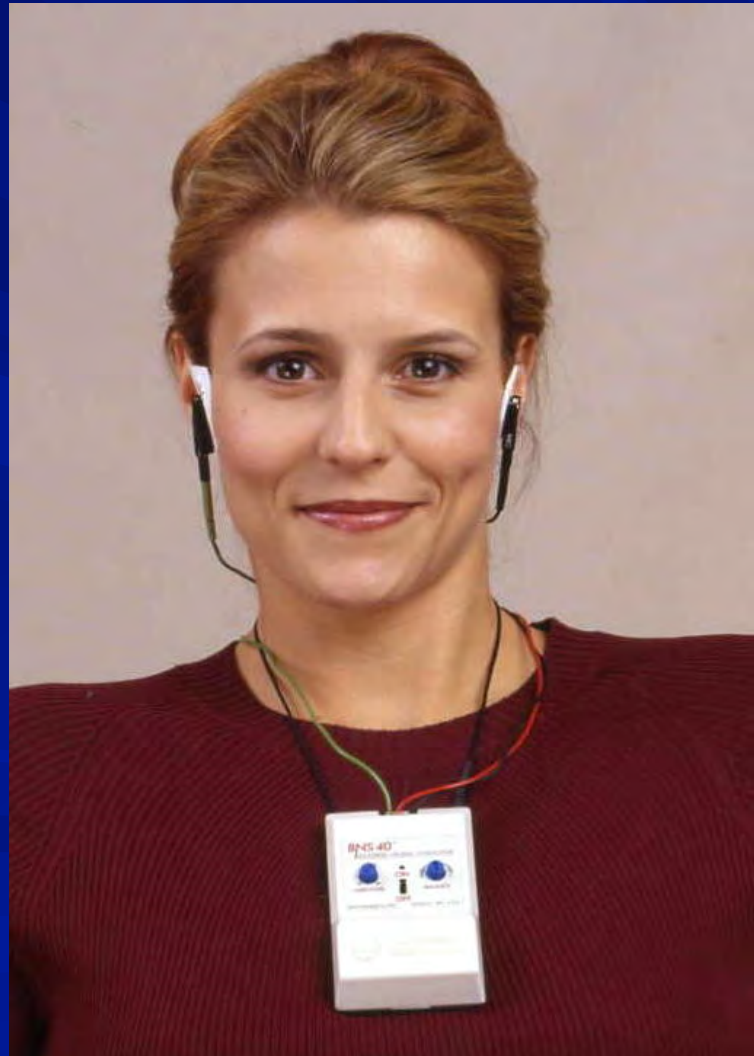
# BILATERAL TENS NEUROMUSCULAR STIMULATOR 2 CHANNELS FOR CNV, CNVII AND UPPER QUADRANT APPLICATION



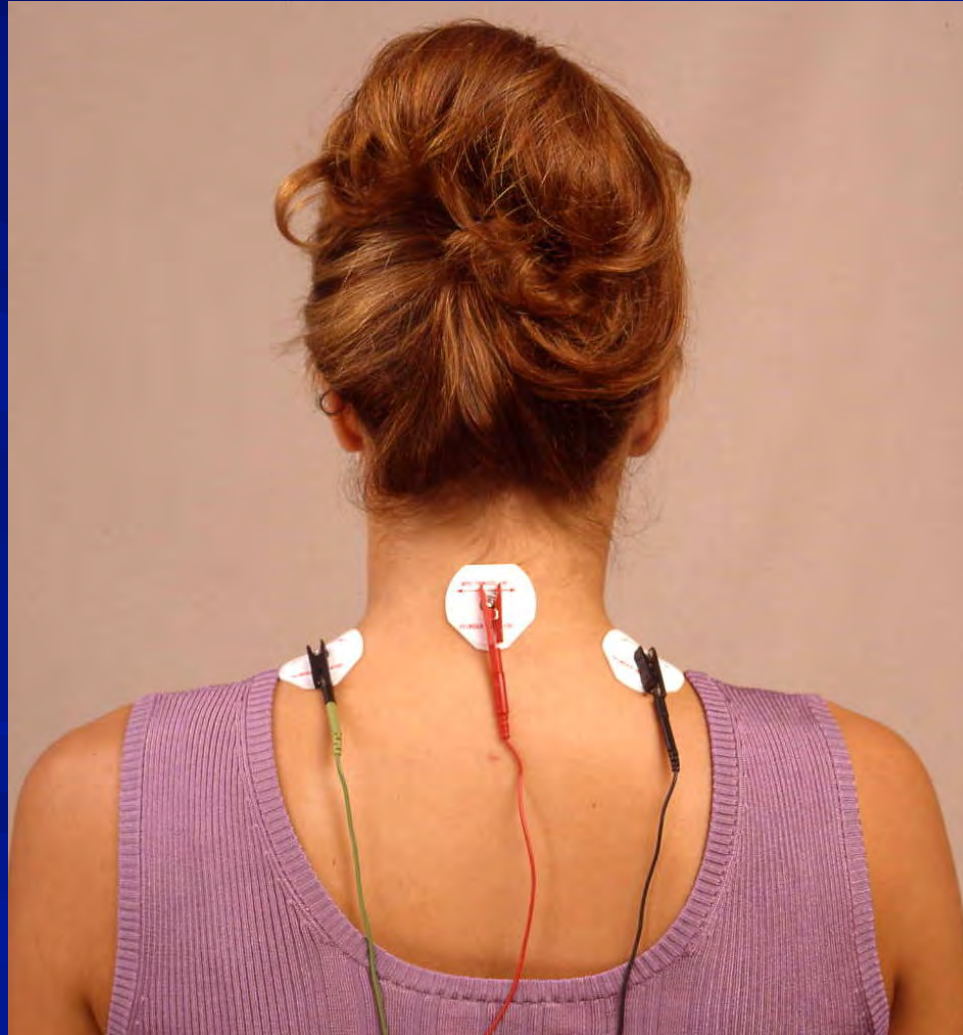
# HOME TENS BILATERAL DEVICE



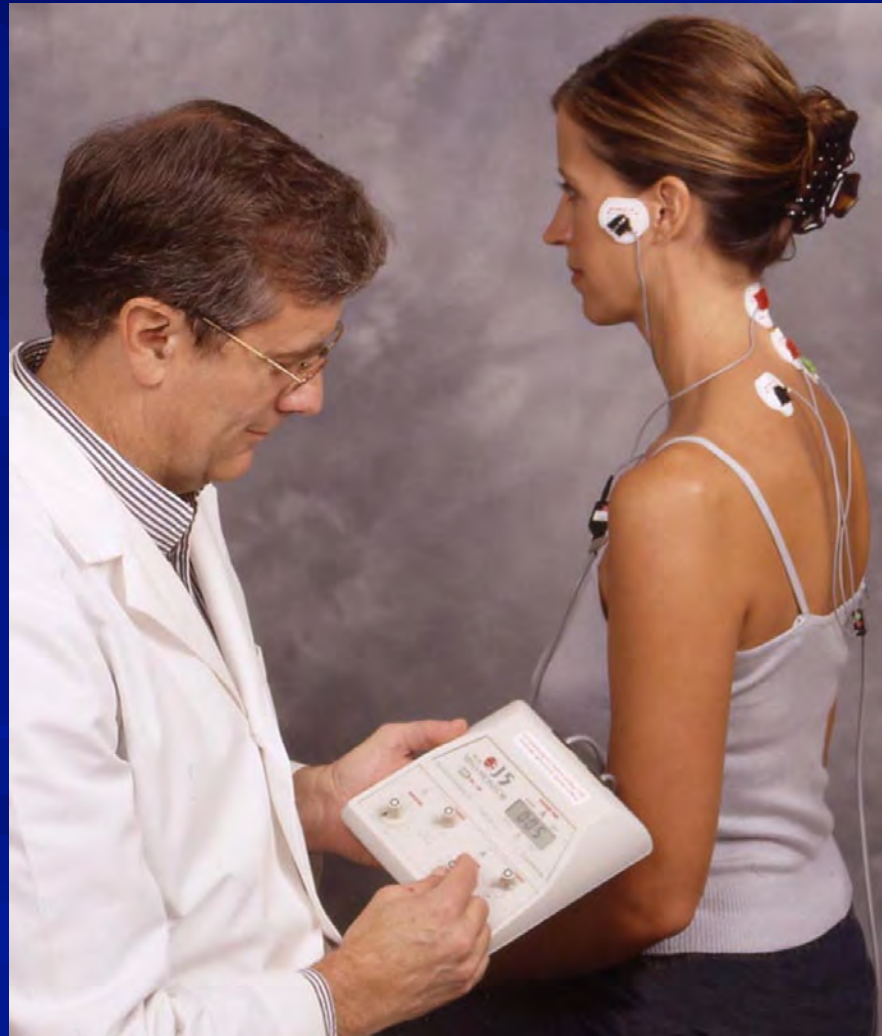
# TENS DEVICE FOR BILATERAL STIMULATION OF CNV Division 3 AND CNVII



# TENS DEVICE FOR BILATERAL STIMULATION OF UPPER QUADRANT MUSCLES

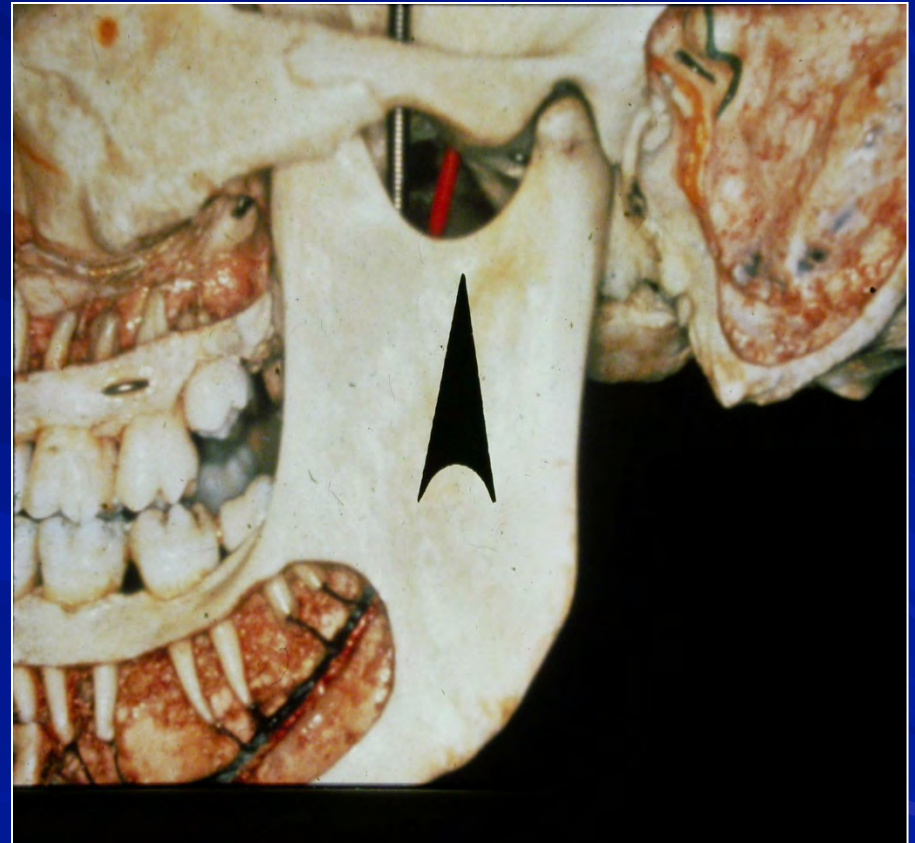


# TENS DEVICE FOR BILATERAL STIMULATION OF CNV AND CNVII AND UPPER QUADRANT MUSCLES

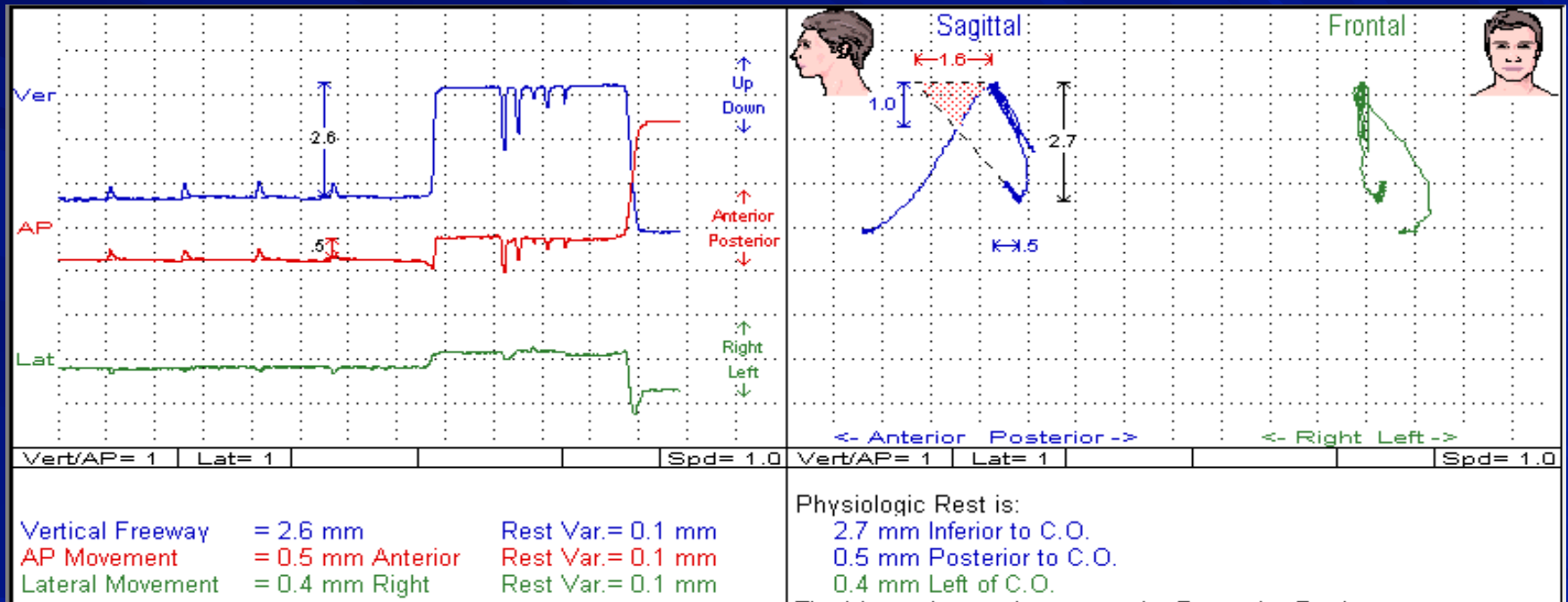


# Placement of Bilateral Electrodes for Optimum Neural Stimulation

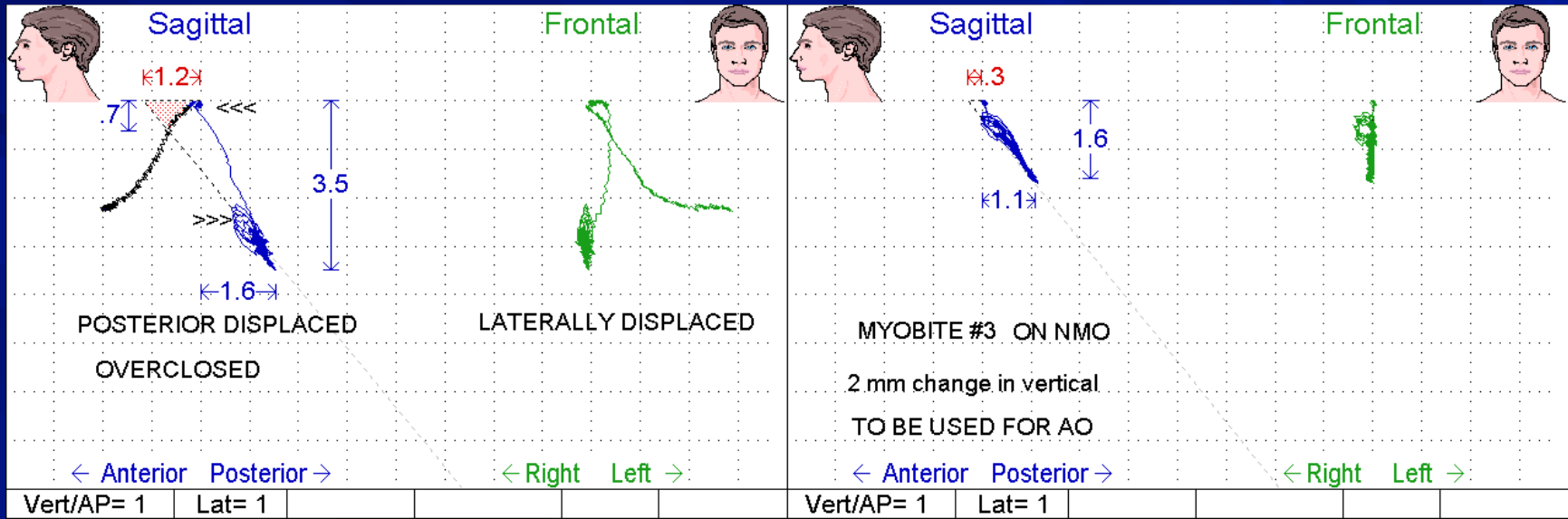
- Electrode is placed over the notch between the Coronoid Process and the TMJ for soft tissue stimulus conduction



# Sweep & Sagittal / Frontal Post TENS True Rest Position Identification of Neuromuscular Occlusion Position



# Comparison of Occlusal Positions Natural v Neuromuscular myobite





# FIRST PATIENT

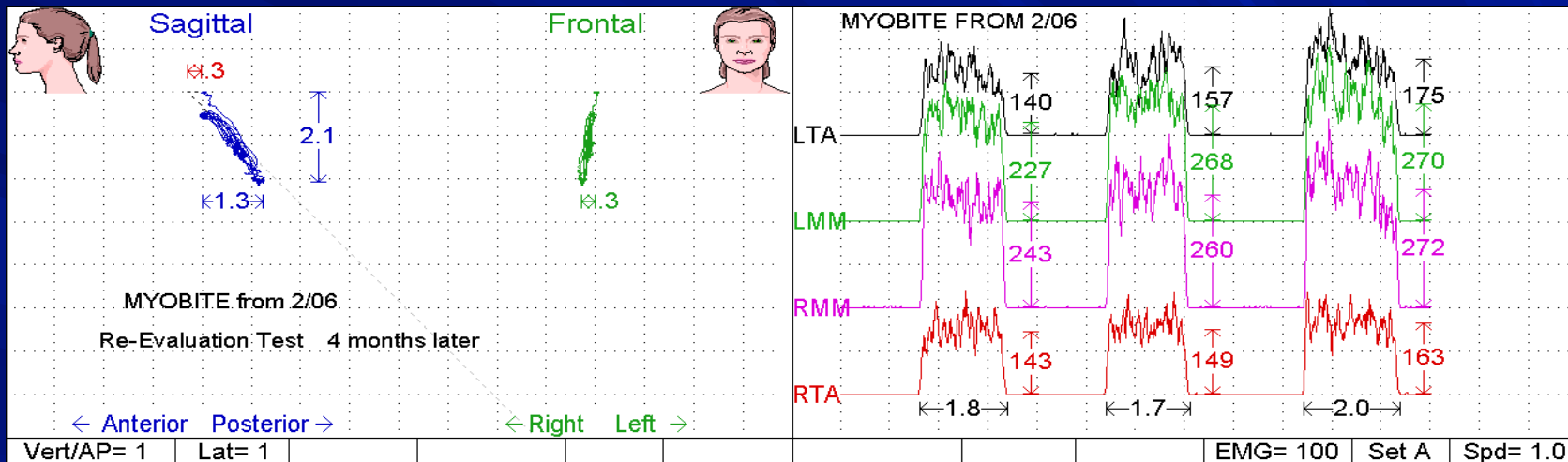
Natural Occlusion with severe attrition throughout both arches

Note: Collapsed vertical dimension of occlusion



# Test of Accuracy of Neuromuscular Myobite at Re-Evaluation Test

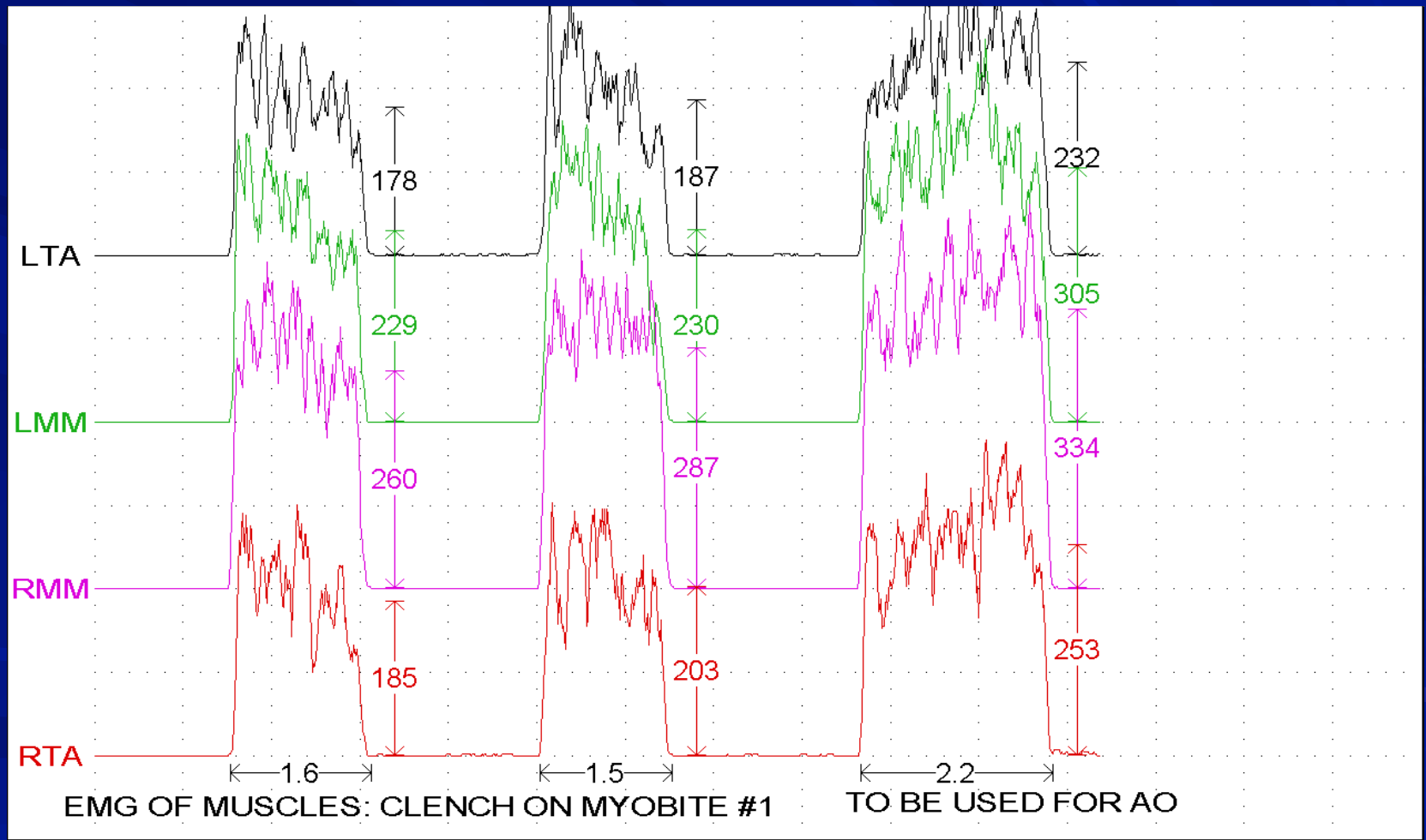
Bite position and muscle function are excellent



# EMG Muscle Function

## Clench on Neuromuscular Myobite

### Testing accuracy of bite registration for orthosis



# Articulated Casts in Neuromuscular Occlusion Relationship



# Full Coverage Mandibular Orthosis Acetal Resin Material

Internal view



External view



Severely worn dentition



Orthosis in place



# Neuromuscular Orthosis



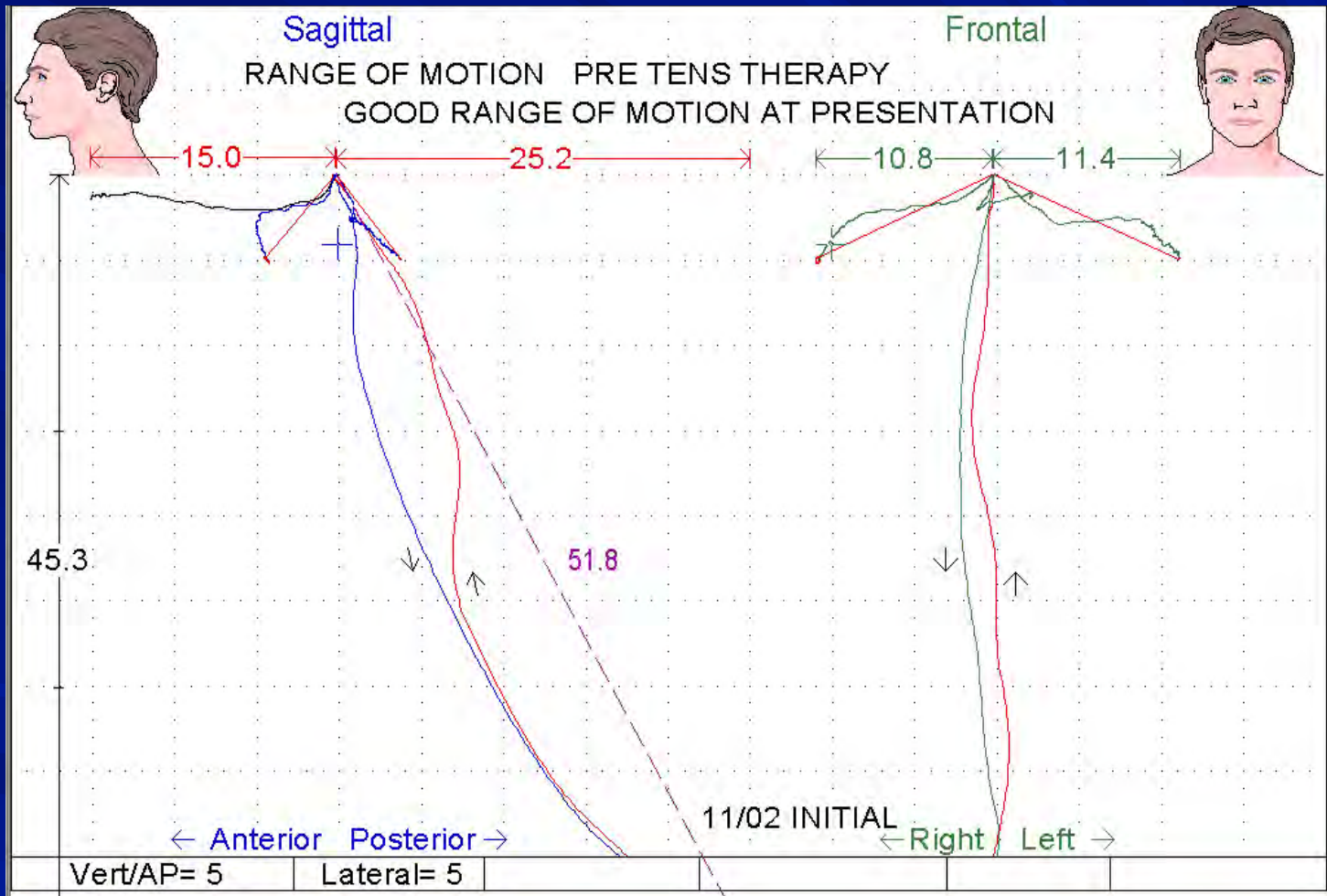
# Neuromuscular Acetal Orthosis

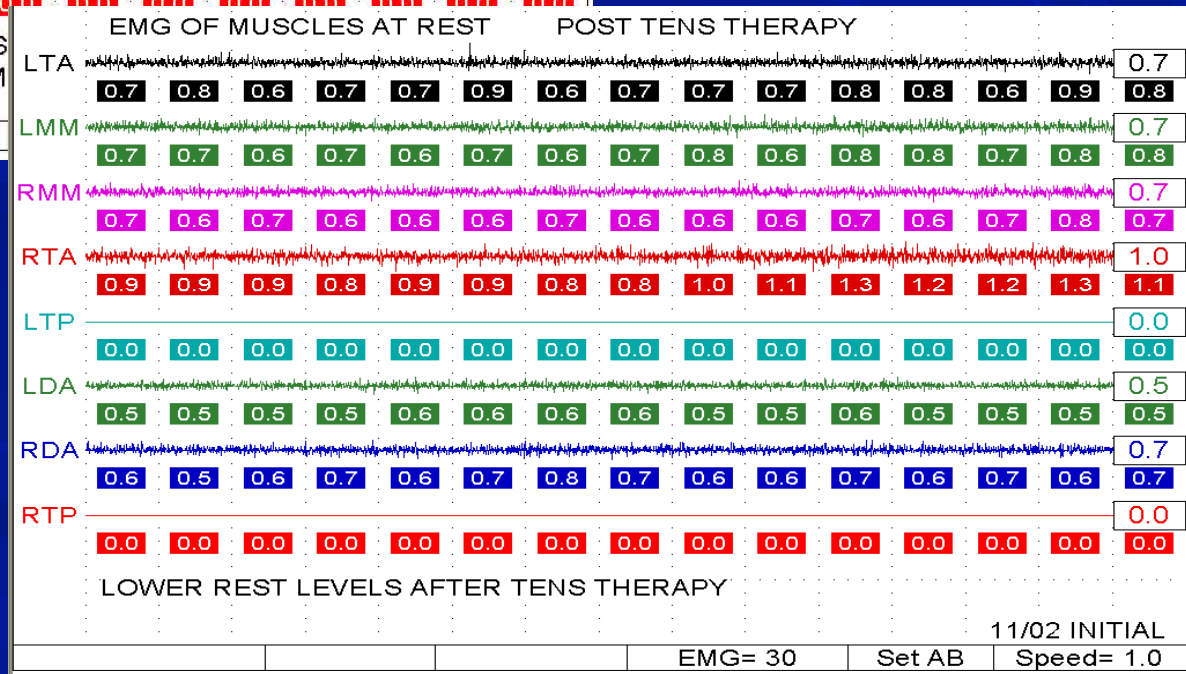
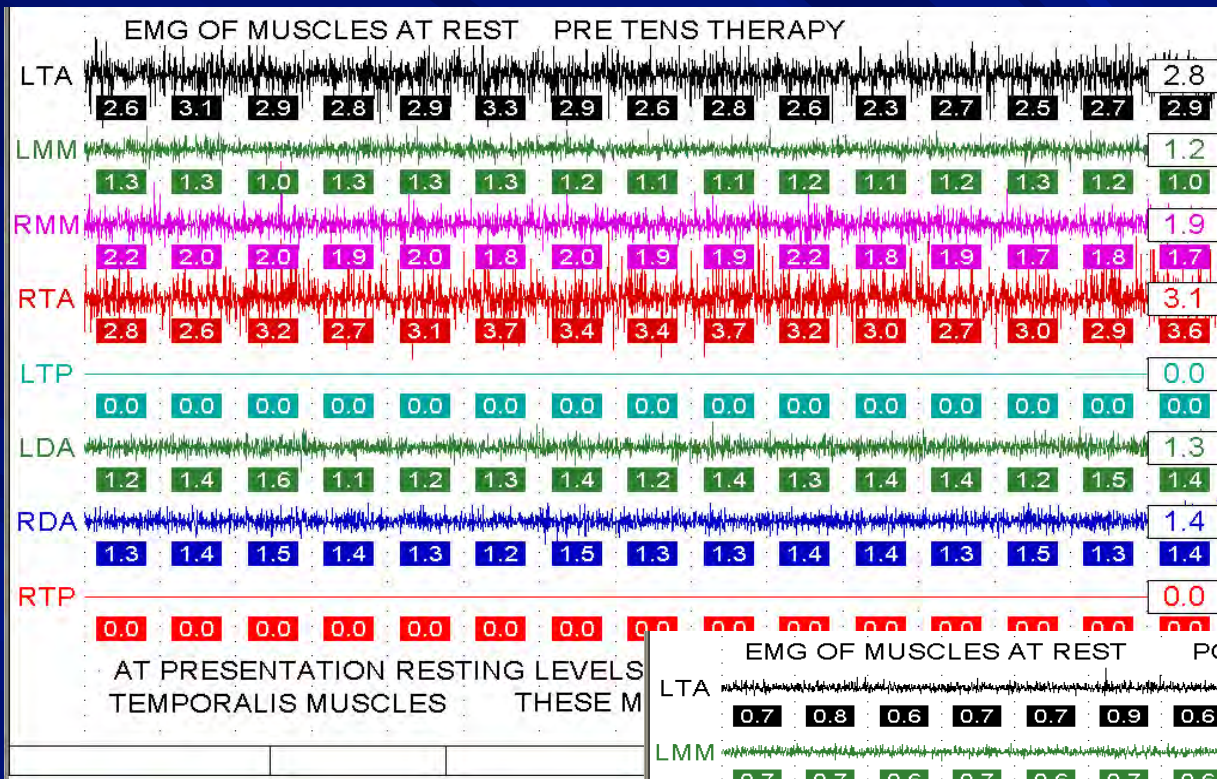
Note: Full coverage because of severe attrition throughout  
Occlusal correction initially only with lower orthosis



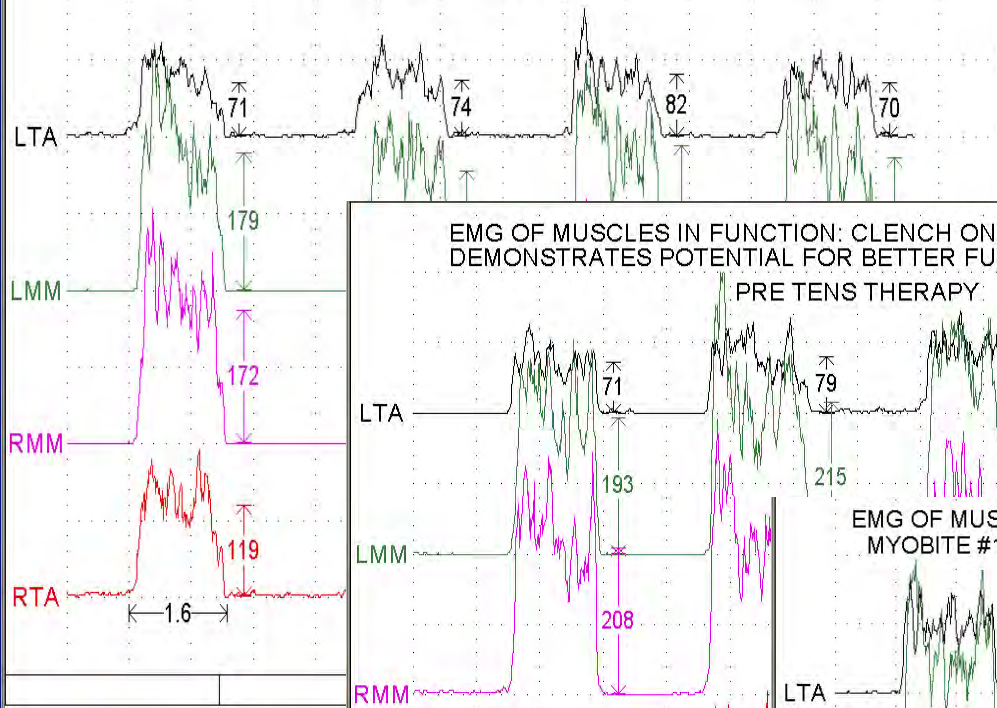


# TREATMENT OF SECOND TMD PATIENT

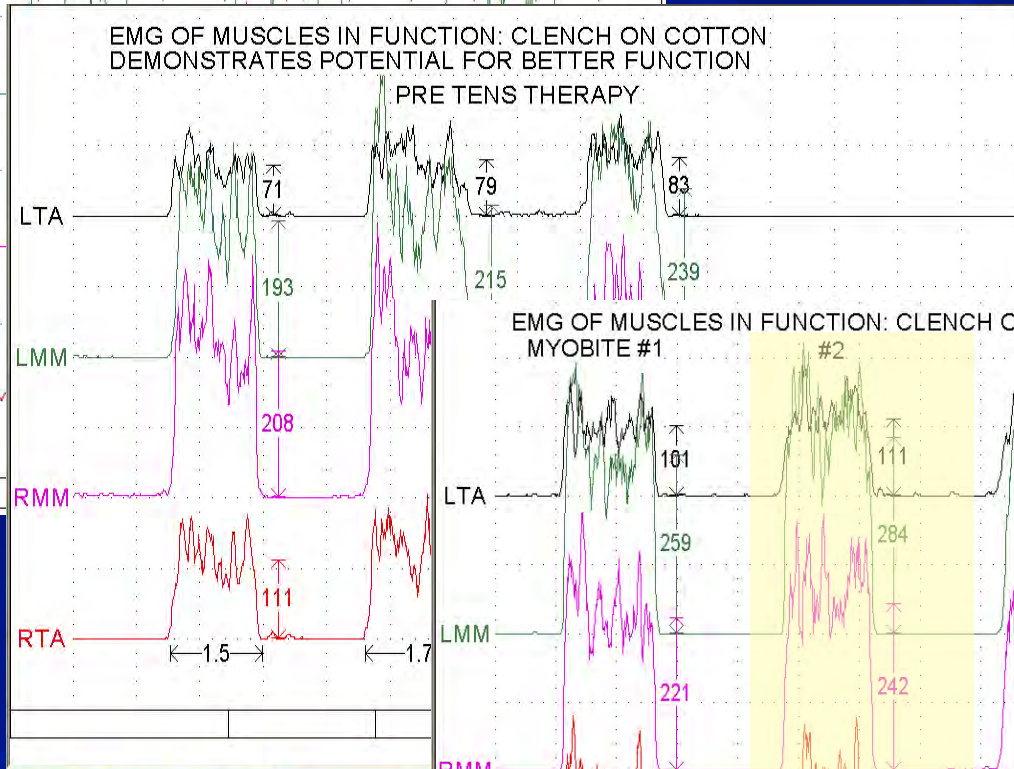




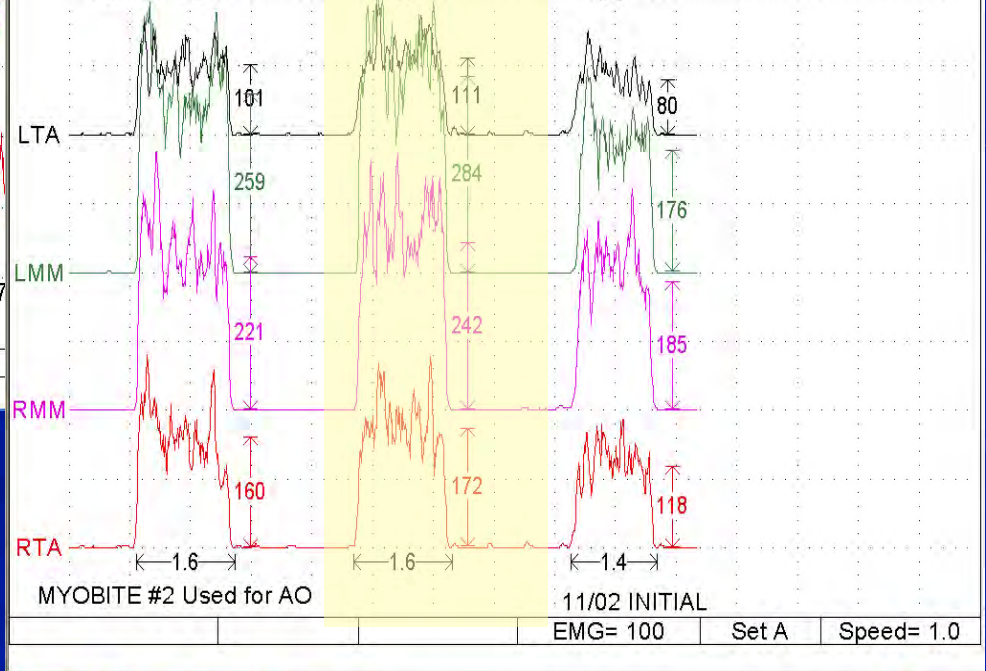
EMG OF MUSCLES IN FUNCTION: CLENCH ON NATURAL TEETH  
PRE TENS THERAPY



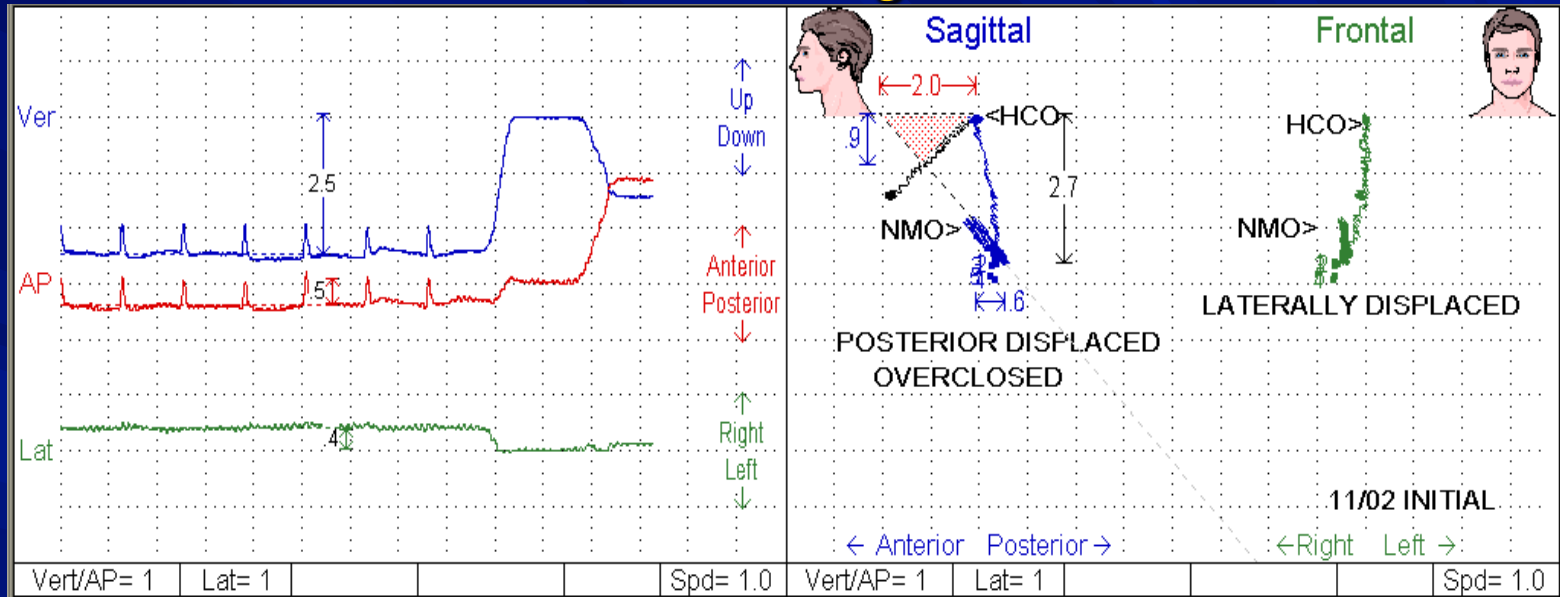
EMG OF MUSCLES IN FUNCTION: CLENCH ON COTTON  
DEMONSTRATES POTENTIAL FOR BETTER FUNCTION  
PRE TENS THERAPY



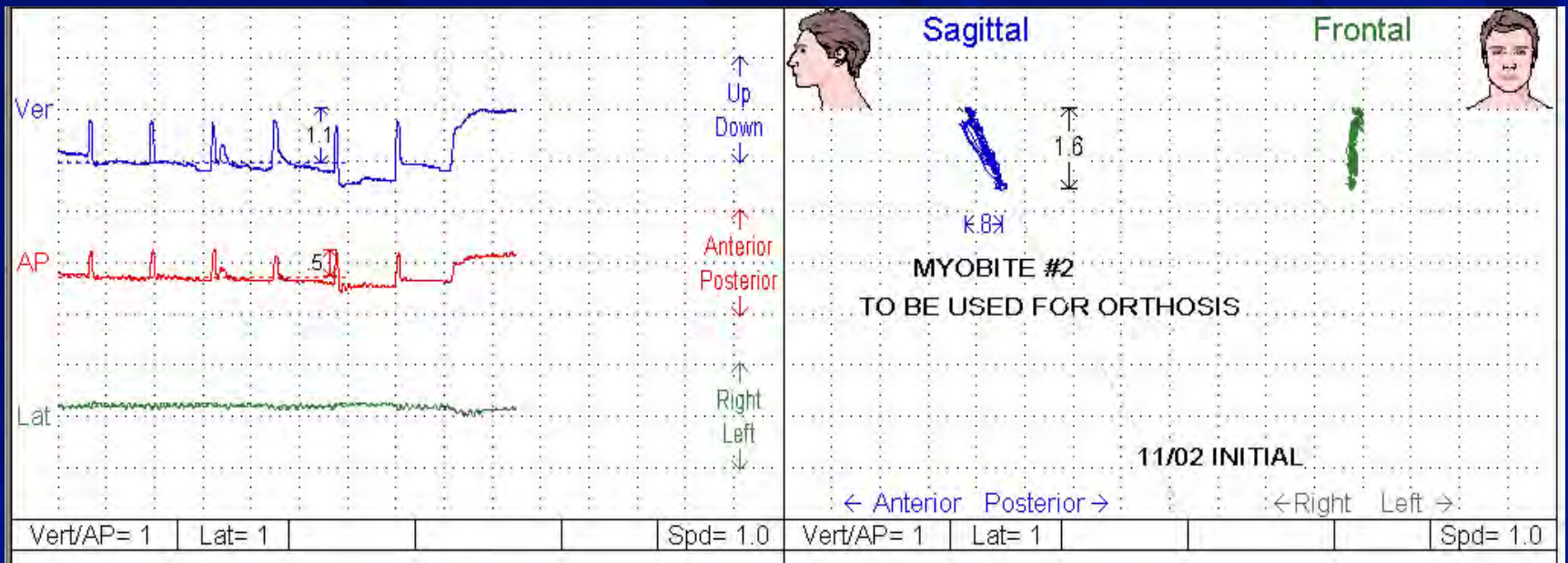
EMG OF MUSCLES IN FUNCTION: CLENCH ON MYOBITES  
MYOBITE #1 #2 #3



# Identification of Rest Position for Selection of Neuromuscular Occlusion NMO With Jaw Tracking and EMG



1	2.2	1.3	1.7	2.3	0.0	0.7	0.9	0.0	Ver	AP	Lat
2	LTA	LMM	RMM	RTA	LTP	LDA	RDA	RTP	2.7	0.4	-0.6
2	1.9	1.1	1.6	1.6	0.0	0.7	0.8	0.0	Ver	AP	Lat
2	LTA	LMM	RMM	RTA	LTP	LDA	RDA	RTP	2.7	0.4	-0.5
3	1.9	1.0	1.9	2.1	0.0	0.7	0.8	0.0	Ver	AP	Lat
2	LTA	LMM	RMM	RTA	LTP	LDA	RDA	RTP	2.8	0.3	-0.6
4	1.8	1.3	1.5	1.9	0.0	0.7	0.9	0.0	Ver	AP	Lat
2	LTA	LMM	RMM	RTA	LTP	LDA	RDA	RTP	3.0	0.4	-0.6
5	1.3	1.2	2.2	2.1	0.0	0.8	0.9	0.0	Ver	AP	Lat
2	LTA	LMM	RMM	RTA	LTP	LDA	RDA	RTP	2.9	0.3	-0.6

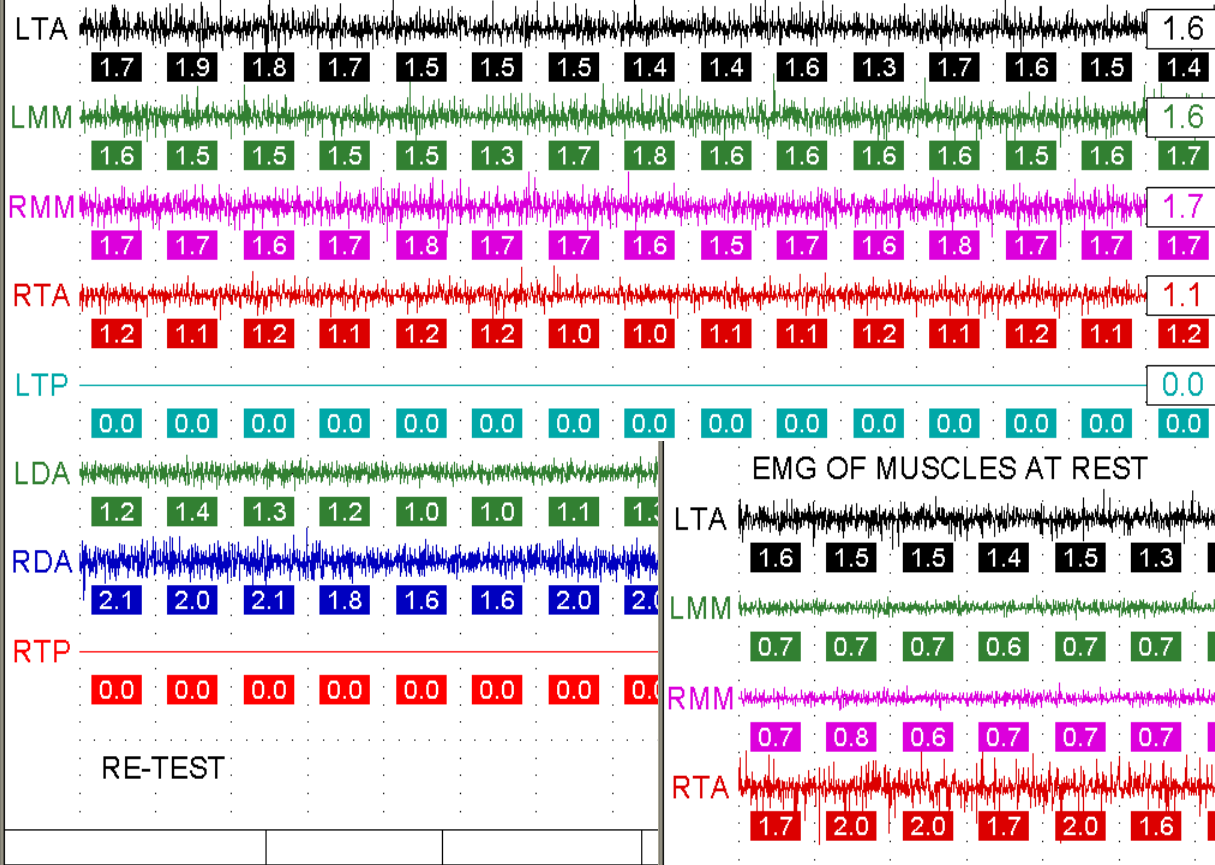


**NEUROMUSCULAR BITE REGISTRATION**

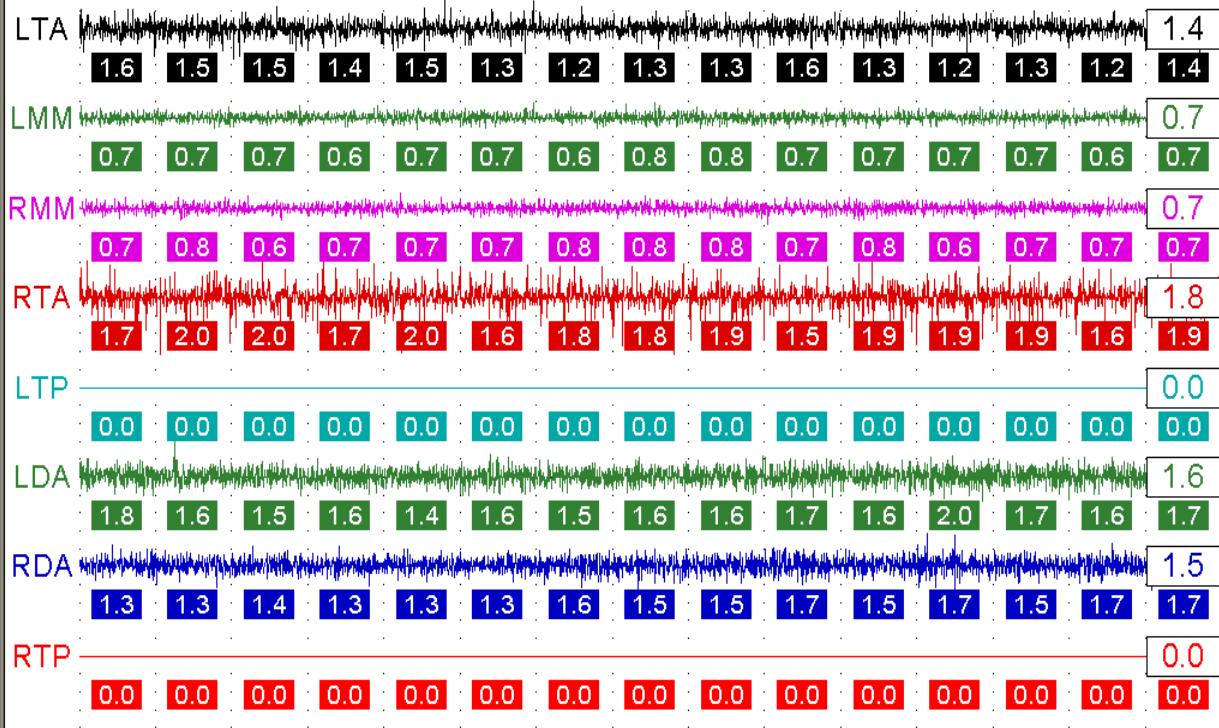
# INITIAL RESIN NEUROMUSCULAR ORTHOSIS



### EMG OF MUSCLES AT REST- PRE TENS THERAPY



### EMG OF MUSCLES AT REST POST TENS THERAPY

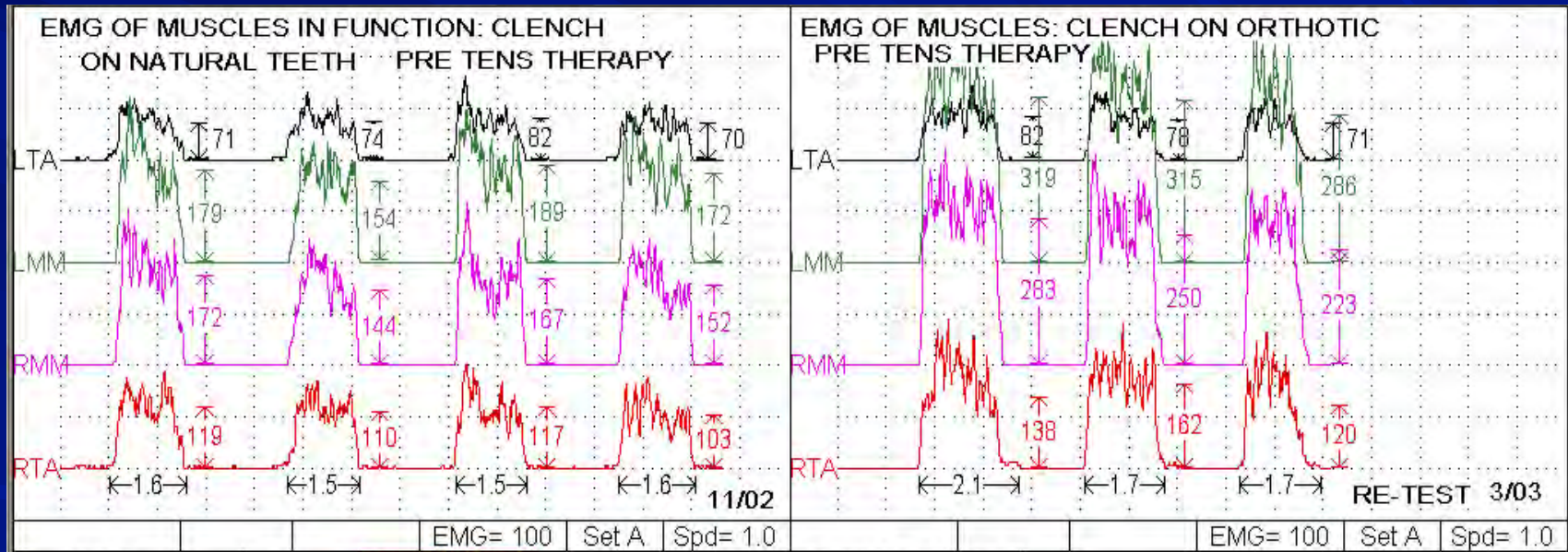


LOWER REST LEVELS AFTER TENS THERAPY

RE-TEST

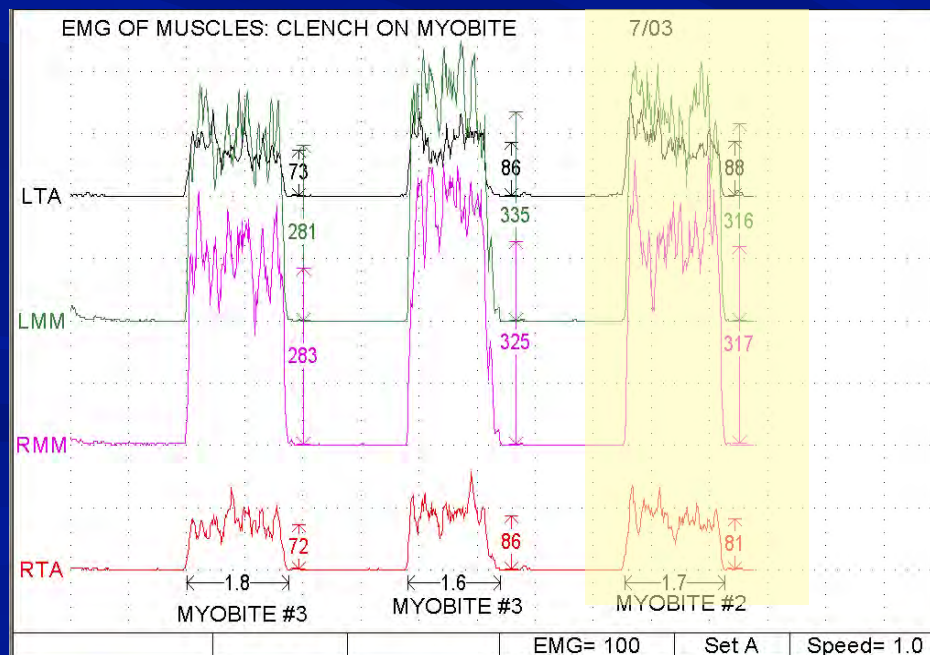
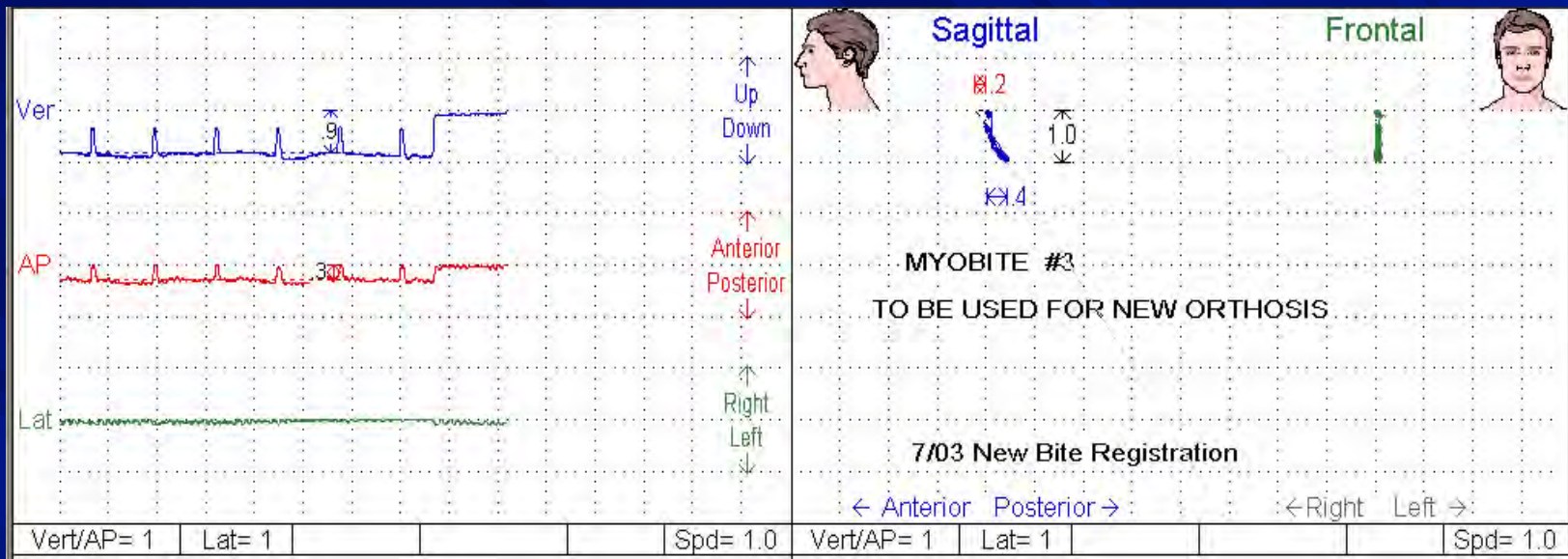
# Comparison of EMG Clench Function on Natural Teeth and on NMO Orthotic

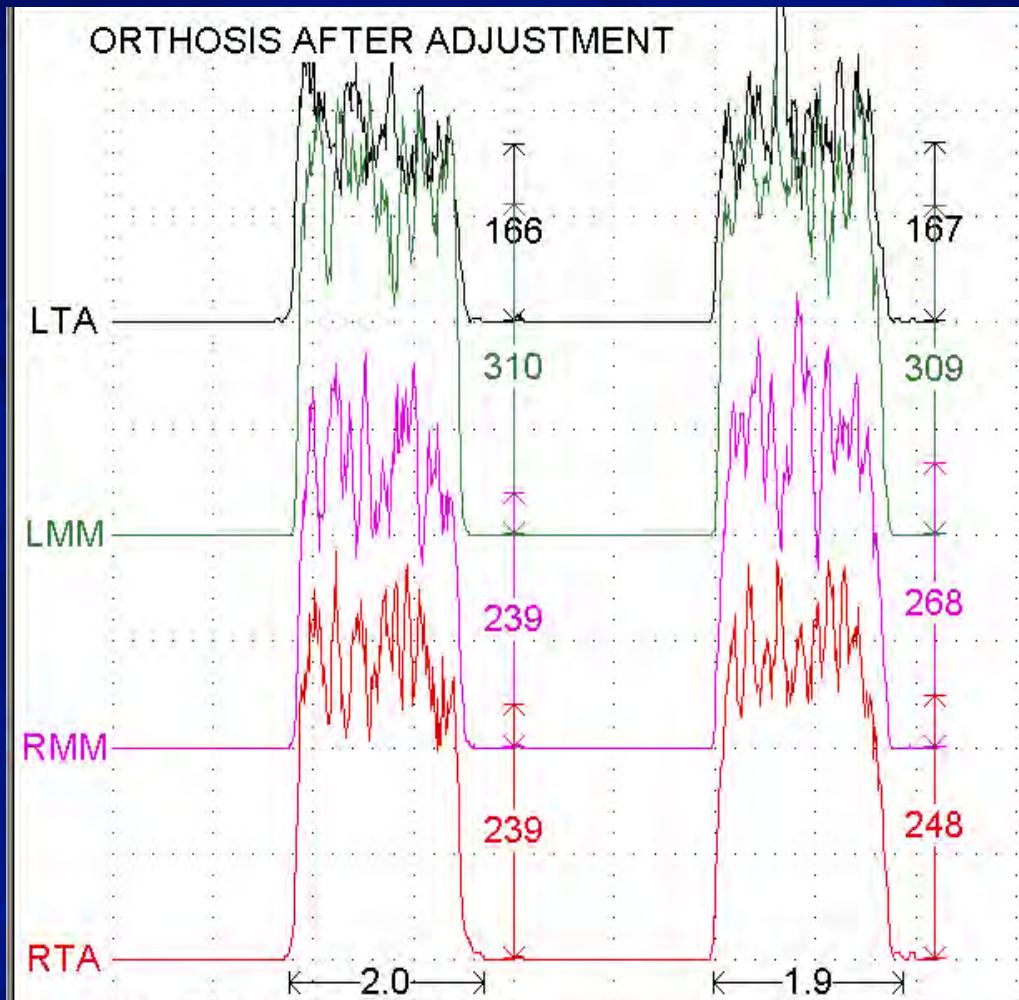
Note: Significant improvement with orthotic



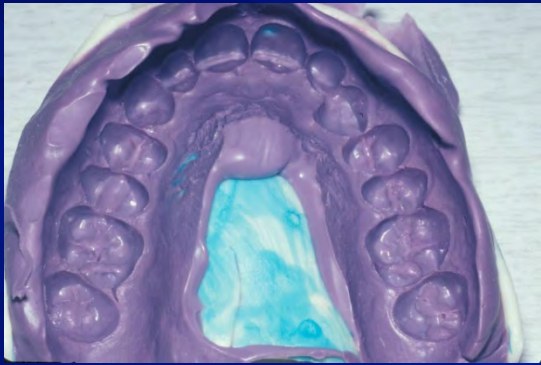


# TEST OF ACCURACY OF BITE REGISTRATION





# Laboratory Fabrication of NMO Onlays



# OTHER FORMS OF LONG TERM THERAPY REMOVABLE ORTHOSIS



# LONG TERM TREATMENT WITH PORCELAIN ONLAYS



# PRE RECONSTRUCTION LONG TERM NM TREATMENT



# POST RECONSTRUCTION LONG TERM NM TREATMENT



# PRE ORTHODONTIC LONG TERM NM TREATMENT





# POST ORTHODONTIC LONG TERM NM TREATMENT

