

ABO Case Management Form



The highest commitment to excellence.

Today's Program

- History and Evolution
- Review of The CMF and its Elements
- Example of Completed Form
- Examples of Typical Errors
- Practical Applications

DI

- 12 defined and quantified parameters measuring case complexity

EXAM YEAR

ABO DISCREPANCY INDEX

ABO ID #

CASE#

PATIENT

TOTAL D.I. SCORE

0

*For mm measures, round up to the next full mm.
Examiners will verify measurements in each category.*

OVERJET

- ≥ 0 to < 1 mm (edge-to-edge) = 1 pt
- ≥ 1 to ≤ 3 mm = 0 pts
- > 3 to ≤ 5 mm = 2 pts
- > 5 to ≤ 7 mm = 3 pts
- > 7 to ≤ 9 mm = 4 pts
- > 9 mm = 5 pts
- Negative Overjet (x-bite):
1 pt per mm per tooth = ___pts

Total

OVERBITE

- > 1 to ≤ 3 mm = 0 pts
- > 3 to ≤ 5 mm = 2 pts
- > 5 to ≤ 7 mm = 3 pts
- Impinging (100%) = 5 pts

Total

ANTERIOR OPEN BITE

- 0 mm (edge-to-edge), 1 pt per tooth = ___pts
- then 1 pt per mm per tooth = ___pts

Total

LATERAL OPEN BITE

- ≥ 0.5 mm, 2 pts per mm per tooth

Total

CROWDING (only one arch)

- ≥ 0 to ≤ 1 mm = 0 pts
- > 1 to ≤ 3 mm = 1 pts
- > 3 to ≤ 5 mm = 2 pts
- > 5 to ≤ 7 mm = 4 pts
- > 7 mm = 7 pts

Total

OCCUSAL RELATIONSHIP

- Class I to End On = 0 pts
- End-to-End Class II or III = 2 pts per side ___pts
- Full Class II or III = 4 pts per side ___pts
- Beyond Class II or III = 1 pt per mm ___pts
- additional

Total

LINGUAL POSTERIOR X-BITE

- > 0 mm, 1 pt per tooth

Total

BUCCAL POSTERIOR X-BITE

- > 0 mm, 2 pts per tooth

Total

CEPHALOMETRICS (See Instructions)

- ANB ≥ 6° or ≤ -2° @4pts = ___
- Each full degree > 6° ___x 1 pt = ___
- Each full degree < -2° ___x 1 pt = ___

SN-MP

- ≥ 38° @2pts = ___
- Each full degree > 38° ___x 2 pts = ___

- ≤ 26° @1pt = ___
- Each full degree < 26° ___x 1 pt = ___

- I to MP ≥ 99° @1pt = ___

- Each full degree > 99° ___x 1 pt = ___

Total

OTHER (See Instructions)

- Supernumerary teeth ___x 1 pt = ___
- Ankylosis of perm. teeth ___x 2 pts = ___
- Anomalous morphology ___x 2 pts = ___
- Impaction (except 3rd molars) ___x 2 pts = ___
- Midline discrepancy (≥3 mm) @ 2 pts = ___
- Missing teeth (except 3rd molars) ___x 1 pt = ___
- Missing teeth, congenital ___x 2 pts = ___
- Spacing (4 or more, per arch) ___x 2 pts = ___
- Spacing(mx cent diastema ≥ 2 mm) @ 2 pts = ___
- Tooth transposition ___x 2 pts = ___
- Skeletal asymmetry(nonsurgical tx) @ 3 pts = ___
- Addl. treatment complexities ___x 2 pts = ___

Identify:

Total Other

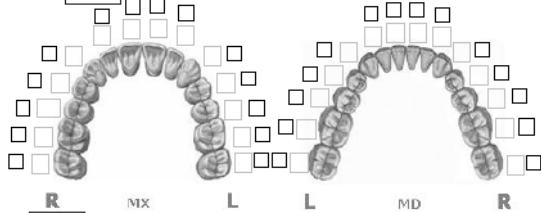
CR-Evaluation Form

- Established and defined criteria of dental and occlusal finishing excellence
- Quantified measurable limits of parameters to .5mm
- Eight measured parameters quantifying finishing excellence
- Overall cast-radiograph evaluation

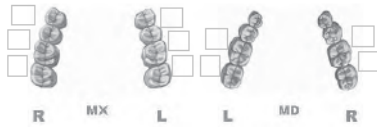
INSTRUCTIONS: Second molars should be in occlusion. Mark extracted teeth with a check in the bolded box. Place score beside each deficient tooth.

Total C-R Eval Score: 0

Alignment/Rotations 0



Marginal Ridges 0



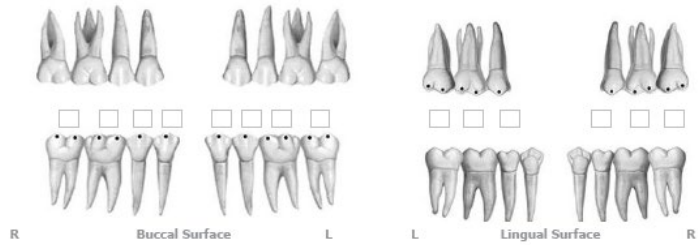
Buccolingual Inclination 0



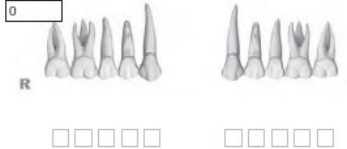
Overjet 0



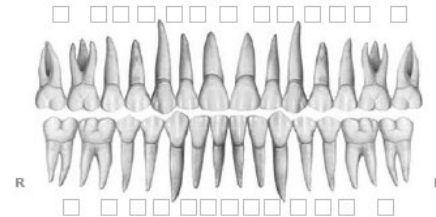
Occlusal Contacts 0



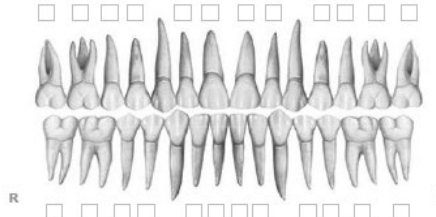
Occlusal Relationships 0



Interproximal Contacts 0



Root Angulation 0



Reasons for the ABO Case Management Form

Complete evaluation of an orthodontic case demands more than the Written Case Report, Discrepancy Index, and Cast-Radiograph Evaluation.

There is more to orthodontic treatment than case history, difficulty and excellent final occlusion.

Reasons for the ABO Case Management Form

1. Self evaluation (quantified)
2. Evaluation/judgement of each parameter (quantified)
3. Evaluation of records (quantified)
4. Scores can be scored/digitally retrieved (demonstrates trends)
 - A numerical VTO
 - Self evaluation
 - Monitors record quality

Case Management Form

MEASUREMENTS				SKELETAL ANALYSIS (S)		0-Acceptable 1-Unacceptable		SCORING		
	PRE TX	PROG	POST TX	DIFF.		EXAMINEE TX OBJECTIVES		PRE TX OBJ	POST TX RESULT	Score
	A	A1	B			(A-B)				
CEPHALOMETRIC	SNA°			0.0	A-P MX	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 0	<input type="radio"/> 1	0
	SNB°			0.0	A-P MN	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 0	<input type="radio"/> 1	0
	ANB°			0.0						
	SN-MP***			0.0	VERT MX	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 0	<input type="radio"/> 1	0
	FMA°			0.0	VERT MN	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 0	<input type="radio"/> 1	0
DENTAL ANALYSIS (D)	1 TO NA mm			0.0	A-P MX	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 0	<input type="radio"/> 1	0
	1 TO SN°			0.0						
	1 TO NB mm			0.0	A-P MN	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 0	<input type="radio"/> 1	0
	1 TO MP°			0.0						
						VERT	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 0	<input type="radio"/> 1
ARCH	2 TO 2 WIDTH			0.0	TRANS MX	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 0	<input type="radio"/> 1	0
	6 TO 6 WIDTH			0.0	TRANS MN	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 0	<input type="radio"/> 1	0
	3 TO 3 WIDTH			0.0	TRANS ANT	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 0	<input type="radio"/> 1	0
	CURVE OF SPEE			0.0	CURVE OF SPEE	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 0	<input type="radio"/> 1	0
	MANDIBULAR ARCH FORM			0.0	ARCH FORM MN	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 0	<input type="radio"/> 1	0
				FACIAL ANALYSIS (F)						
E-LINE	Upper			0.0	FACIAL ESTHETICS	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 0	<input type="radio"/> 1	0
	Lower			0.0		<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 0	<input type="radio"/> 1	0
S-D-F Subtotal										0
RECORDS ANALYSIS				<i>Shaded areas for examiner only.</i>						
	FACIAL PHOTOS	INTRADRAL PHOTOS	INTRADRAL RADIOGRAPHS	PERIO RECORD	CEPH & TRACINGS	COMP TRACINGS	DENTAL CASTS	CASE REPORT	PRESENT QUALITY	
PRE-TX A FOR PROG. A1	0 1	0 1	0 1	0 1	0 1		0 1			
FINAL B	0 1	0 1	0 1	0 1	0 1		0 1	0 1	0 1	SUB-TOTAL RECORDS ANALYSIS
OVERALL ANALYSIS										
TREATMENT PLANNING / MECHANOTHERAPY					FINAL TREATMENT RESULTS					
0	1	2	3		0	1	2	3		SUB-TOTAL OVERALL ANALYSIS
ACCEPT	DEFICIENCIES				ACCEPT	DEFICIENCIES				
TOTAL										

20121008

Sample of CMF Skeletal Analysis

SKELETAL ANALYSIS (S)

0-Acceptable 1-Unacceptable

	PRE TX A	PROG A1	POST TX B	DIFF. A-B		EXAMINEE TX OBJECTIVES	PRE TX OBJ	POST TX RESULT	Score
SNA°				0.0	A-P MX	<input type="radio"/> 0 <input type="radio"/> 1	<input type="radio"/> 0 <input type="radio"/> 1	0	
SNB°				0.0	A-P MN	<input type="radio"/> 0 <input type="radio"/> 1	<input type="radio"/> 0 <input type="radio"/> 1	0	
ANB°				0.0					
SN-MP°**				0.0	VERT MX	<input type="radio"/> 0 <input type="radio"/> 1	<input type="radio"/> 0 <input type="radio"/> 1	0	
FMA°				0.0	VERT MN	<input type="radio"/> 0 <input type="radio"/> 1	<input type="radio"/> 0 <input type="radio"/> 1	0	

Sample of CMF Dental Analysis

DENTAL ANALYSIS (D)

<u>1</u> TO NA mm				0.0
<u>1</u> TO SN°				0.0
<u>-</u> 1 TO NB mm				0.0
<u>-</u> 1 TO MP°				0.0

<u>6</u> TO <u>6</u> WIDTH				0.0
<u>-</u> 6 TO <u>-</u> 6 WIDTH				0.0
<u>-</u> 3 TO <u>-</u> 3 WIDTH				0.0
CURVE OF SPEE				0.0
MANDIBULAR ARCH FORM				

A-P MX		<input type="radio"/> 0 <input type="radio"/> 1	<input type="radio"/> 0 <input type="radio"/> 1	0
A-P MN		<input type="radio"/> 0 <input type="radio"/> 1	<input type="radio"/> 0 <input type="radio"/> 1	0
VERT		<input type="radio"/> 0 <input type="radio"/> 1	<input type="radio"/> 0 <input type="radio"/> 1	0
TRANS MX		<input type="radio"/> 0 <input type="radio"/> 1	<input type="radio"/> 0 <input type="radio"/> 1	0
TRANS MN		<input type="radio"/> 0 <input type="radio"/> 1	<input type="radio"/> 0 <input type="radio"/> 1	0
TRANS ANT		<input type="radio"/> 0 <input type="radio"/> 1	<input type="radio"/> 0 <input type="radio"/> 1	0
CURVE OF SPEE		<input type="radio"/> 0 <input type="radio"/> 1	<input type="radio"/> 0 <input type="radio"/> 1	0
ARCH FORM MN		<input type="radio"/> 0 <input type="radio"/> 1	<input type="radio"/> 0 <input type="radio"/> 1	0

Sample of CMF Facial Analysis

FACIAL ANALYSIS (F)								
E-LINE	Upper			0.0	FACIAL ESTHETICS	<input type="radio"/> 0	<input type="radio"/> 0	0
	Lower			0.0		<input type="radio"/> 1	<input type="radio"/> 1	

Sample of CMF Records Analysis

RECORDS ANALYSIS *Shaded areas for examiner only.*

	FACIAL PHOTOS	INTRAORAL PHOTOS	INTRAORAL RADIOGRAPHS	PERIO RECORD	CEPH. & TRACINGS	COMP. TRACING	DENTAL CASTS	CASE REPORT	PRESENT. QUALITY
PRE-TX A &/OR PROG. A1	0 1	0 1	0 1	0 1	0 1		0 1		
FINAL B	0 1	0 1	0 1	0 1	0 1	0 1	0 1	0 1	0 1

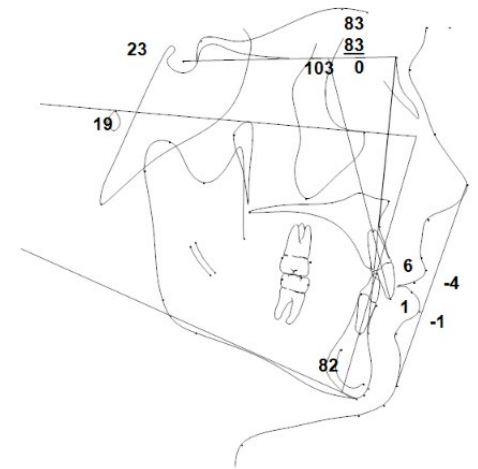
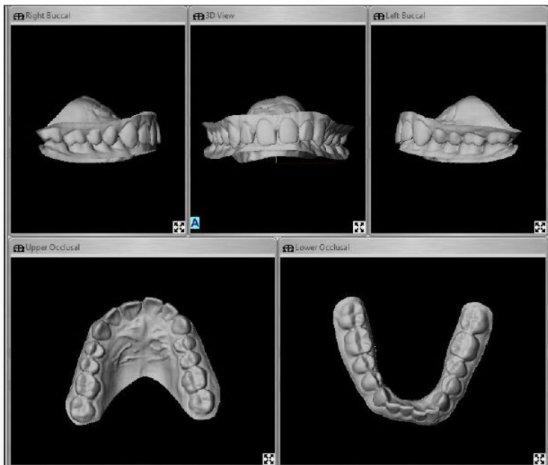
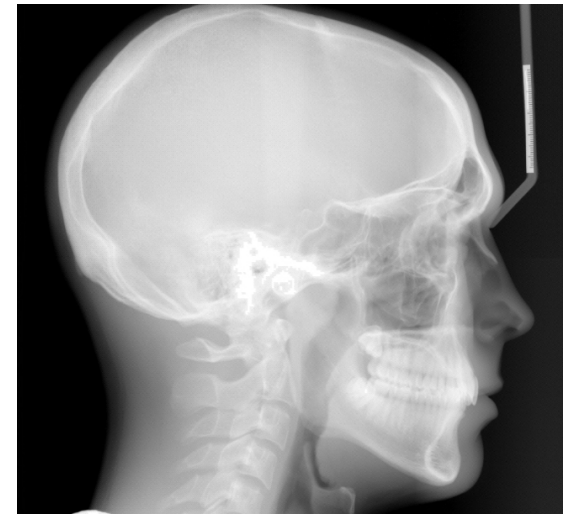
Sample of CMF Overall Analysis

OVERALL ANALYSIS

TREATMENT PLANNING / MECHANOTHERAPY				FINAL TREATMENT RESULTS			
0	1	2	3	0	1	2	3
ACCEPT	DEFICIENCIES			ACCEPT	DEFICIENCIES		



Example Case: Jack



Written Case Report

PATIENT'S NAME:	Jack	DOB (mm-dd-yyyy)	4-13-94
RECORDS SET	A	A1	B
RECORDS DATE (mm-dd-yyyy)	09-11-2013		05-06-2015
PATIENT AGE	19 - 5		21 - 1
INITIATED TX DATE (mm-dd-yyyy)	SINGLE PHASE	OR	PHASE ONE
COMPLETED TX DATE (mm-dd-yyyy)	10-14-2013		PHASE TWO
CASE CRITERIA IDENTIFIER	Not Applicable		
DI VALUE	14		

HISTORY AND ETIOLOGY: 630 max.

Patient is a 19y 4m Caucasian male who presented with a chief complaint of "gap between teeth". He has a non-contributory medical and dental history, no allergy were reported.

DIAGNOSIS

Skeletal: 360 max.

Class I with Class III tendency (ANB = 0.1). His mandibular angle was average to low (SN-MP = 23.4) Cervical vertebrae maturation stage is 5.

Dental: 630 max.

Bilateral Class I molar and canine relationship, overjet of 4mm. Normoclined upper incisors, retroclined lower incisors. Impinging overbite(7.1 mm). There is a deep curve of spee. The overall space analysis showed mild (2 mm) spacing in upper arch and moderate(3.5 mm) crowding in lower arch. The upper midline is shifted to the right 2mm, lower midline is shifted to the right(3mm). There is a 1 mm diastema between upper central incisors. Developing 8's in all quadrants.

Facial: 360 max.

Straight profile, long lower facial third, obtuse nasolabial angel, maxillary midline 2 mm to the right of facial midline, mandibular midline 3 mm to the right of facial midline. competent lips at rest. Excessive gingival display in upper right dentition.

SPECIFIC OBJECTIVES OF TREATMENT

Maxilla (all three planes): 180 max.

There are no skeletal objectives indicated.

Mandible (all three planes): 180 max.

There are no skeletal objectives indicated.

Maxillary Dentition

A-P: 180 max.

Establish ideal overjet, retract upper incisors and close spaces, maintain molar position.

Vertical: 180 max.

2760 characters remaining

Intrusion of upper incisors.

Intermolar Width: 90 max.

Maintain transverse dimension.(Measured from ML cusp tip of U6s).

Mandibular Dentition

A-P: 180 max.

Improve the inclination of lower incisors.

Vertical: 180 max.

Intrusion of lower incisors, extrusion of lower molars is expected.

Intermolar / Intercanine Width: 180 max.

Maintain transverse dimension(measured from central fossa of L6s, and cusp tip of L3s)

Facial Esthetics: 270 max.

Improve the facial esthetics by closing the diastema.

TREATMENT PLAN: 1170 max.

- 1) Obtain the general dentist clearance, record perio probing. 2) Non-extraction treatment plan.
- 2) Bond upper and lower teeth from 7-7 using 0.022" x 0.028" slot edgewise metal brackets MBT prescription. use posterior bite blocks (adhesive GIC) on lower second molars to help open the bite and bond lower anterior teeth.
- 3) Level and align using 0.014,0.016,0.017x0.022,0.018x0.025 NT wires then 0.019x25 SS wires.
- 4) Coordinate midlines and close spaces.
- 5) Progress panoramic x-ray will be taken, finishing bends and reposition of brackets as needed.
- 6) Use class II elastic if needed.
- 7) IPR as needed.
- 8) Retention: U/L Essix retainers at the day of debond, then upper and lower hawleys with anterior bite plate at 1 month retainer check visit.

APPLIANCES AND TREATMENT PROGRESS: 990 max.

0.022x0.028 pre-adjusted appliance (victory series; 3M/Unitek), MBT prescription. Used light straight leg reverse curve NiTi wires to level the curve of spee and open the bite. The patient was compliant with appointments, elastic wear, and good oral hygiene throughout the treatment time. Light power chains were used to close spaces, Light IPR was done on lower 2-2 to improve surface contacts. Toward the end of the treatment repositioned some brackets to achieve ideal occlusion. Patient had debonded, photographs and radiographs were taken and essix retainers were delivered.

RESULTS ACHIEVED

If differing radiographic units preclude superimposition(s) – check here

Maxilla (all three planes): 180 max.

A-point moved slightly backward due to upper incisors retraction.

Written Case Report

Mandible (all three planes): 180 max.

There was a backward movement of B point due to lower incisors increased proclination. Mandibular plane angle increased slightly.

Maxillary Dentition

A-P: 180 max.

Upper incisors were retracted

Vertical: 180 max.

Upper incisors were intruded, the vertical position of upper posterior teeth maintained.

Intermolar Width: 90 max.

Maintained

Mandibular Dentition

A-P: 180 max.

Lower incisors were proclined.

Vertical: 180 max.

Lower incisors slightly intruded, lower molars extruded.

Intermolar / Inter canine Width: 180 max.

Maintained intermolar width, Inter canine width was increased by 1.9mm.

Facial Esthetics: 270 max.

Facial esthetics improved after closing the diastema.

RETENTION: 630 max.

Essix retainers were given at the day of debond, then upper and lower hawleys with anterior bite plane at the 1 month retainers check visit. Patient was instructed to wear retainers 20 hours/day for the first 6 months and 12 hours/day afterward.

FINAL EVALUATION OF TREATMENT: 1170 max.

Chief complaint was addressed, the patient was very pleased with the result. Treatment objectives were achieved in efficient treatment time. There is a relapse potential for the deep bite, However, reducing the interincisal angle that was achieved with treatment in addition to the retainer design (hawley with anterior bite plate) will help mitigate the relapse problem.

Upper central incisors showed root resorption, teeth will be monitored and x-rays will be taken periodically. Refer the patient to general dentist to evaluate the 3rd molars.

00121008

Skeletal Analysis

SKELETAL ANALYSIS (S)

0-Acceptable 1-Unacceptable

	PRE TX A	PROG A1	POST TX B	DIFF. A-B
SNA°	83.1		82.9	0.2
SNB°	83		81.8	1.2
ANB°	0.1		1.1	1.0
SN-MP ^{0**}	23.4		24.7	1.3
FMA°	19.2		21.2	2.0

EXAMINEE TX OBJECTIVES		PRE TX OBJ	POST TX RESULT	Score
A-P MX	Maintain maxillary position	<input type="radio"/> 0 <input type="radio"/> 1	<input type="radio"/> 0 <input type="radio"/> 1	0
A-P MN	B-point moved backward slightly due to incisors proclination	<input type="radio"/> 0 <input type="radio"/> 1	<input type="radio"/> 0 <input type="radio"/> 1	0
VERT MX	Maintain vertical dimension.	<input type="radio"/> 0 <input type="radio"/> 1	<input type="radio"/> 0 <input type="radio"/> 1	0
VERT MN	Mandible will rotate clockwise slightly as a result of mechanotherapy	<input type="radio"/> 0 <input type="radio"/> 1	<input type="radio"/> 0 <input type="radio"/> 1	0

Dental Analysis

DENTAL ANALYSIS (D)

<u>1</u> TO NA mm	6.6		4.6	2.0
<u>1</u> TO SN°	103.2		107	3.8
- <u>1</u> TO NB mm	1.1		3.6	2.5
- <u>1</u> TO MP°	82.2		96.1	13.9

<u>6</u> TO <u>6</u> WIDTH	39.2		39.7	0.5
- <u>6</u> TO <u>6</u> WIDTH	40.4		41	0.6
- <u>3</u> TO <u>3</u> WIDTH	23		24.9	1.9
CURVE OF SPEE	4		1	3.0
MANDIBULAR ARCH FORM	OV		OV	SAME

A-P MX	Retract upper incisors	<input type="radio"/> 0 <input checked="" type="radio"/> 1	<input type="radio"/> 0 <input checked="" type="radio"/> 1	0
A-P MN	Increase lower incisors proclination	<input type="radio"/> 0 <input checked="" type="radio"/> 1	<input type="radio"/> 0 <input checked="" type="radio"/> 1	0
VERT	Intrusion of upper and lower incisors, extrusion of lower posterior teeth.	<input type="radio"/> 0 <input checked="" type="radio"/> 1	<input type="radio"/> 0 <input checked="" type="radio"/> 1	0
TRANS MX	Maintain transverse dimension	<input type="radio"/> 0 <input checked="" type="radio"/> 1	<input type="radio"/> 0 <input checked="" type="radio"/> 1	0
TRANS MN	Maintain transverse dimension	<input type="radio"/> 0 <input checked="" type="radio"/> 1	<input type="radio"/> 0 <input checked="" type="radio"/> 1	0
	Increased	<input type="radio"/> 0 <input checked="" type="radio"/> 1	<input type="radio"/> 0 <input checked="" type="radio"/> 1	1
TRANS ANT	leveled	<input type="radio"/> 0 <input checked="" type="radio"/> 1	<input type="radio"/> 0 <input checked="" type="radio"/> 1	0
ARCH FORM MN	Maintain	<input type="radio"/> 0 <input checked="" type="radio"/> 1	<input type="radio"/> 0 <input checked="" type="radio"/> 1	0

Facial Analysis

FACIAL ANALYSIS (F)

E-LINE	Upper	-4		-5	1.0	FACIAL ESTHETICS	maintain	<input type="radio"/> 0	<input type="radio"/> 0	0
	Lower	-1		-1	0.0		<input type="radio"/> 1	<input type="radio"/> 1		

Records Analysis

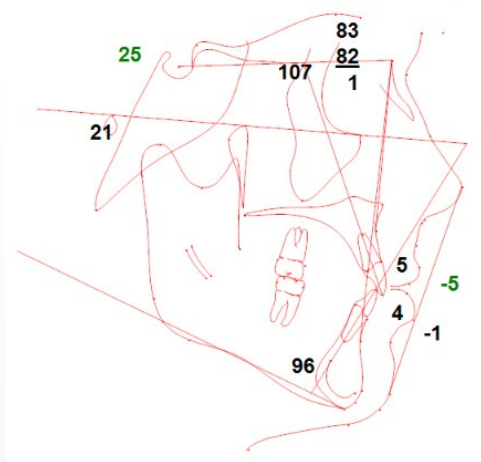
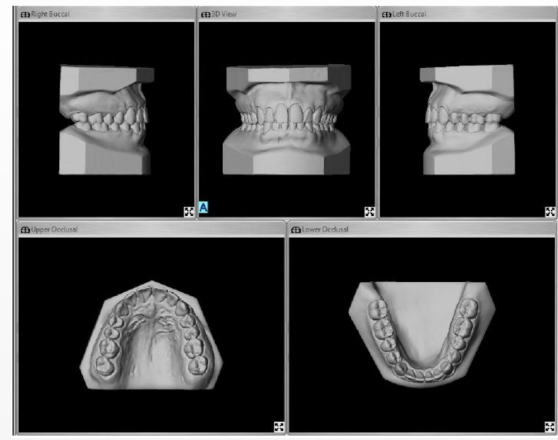
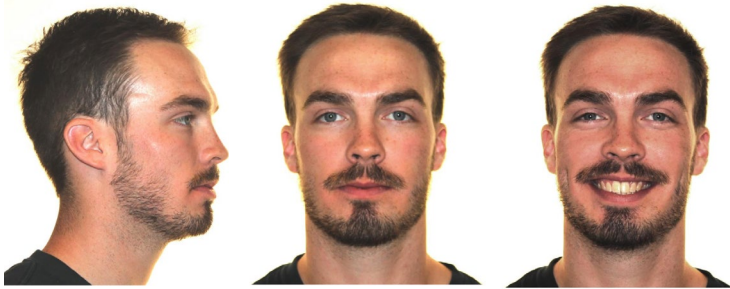
RECORDS ANALYSIS *Shaded areas for examiner only.*

	FACIAL PHOTOS	INTRAORAL PHOTOS	INTRAORAL RADIOGRAPHS	PERIO RECORD	CEPH. & TRACINGS	COMP. TRACING	DENTAL CASTS	CASE REPORT	PRESENT. QUALITY
PRE-TX A &/OR PROG. A1	0 1	0 1	0 1	0 1	0 1		0 1		
FINAL B	0 1	0 1	0 1	0 1	0 1	0 1	0 1	0 1	0 1

Overall Analysis

OVERALL ANALYSIS

TREATMENT PLANNING / MECHANOTHERAPY				FINAL TREATMENT RESULTS			
0	1	2	3	0	1	2	3
ACCEPT	DEFICIENCIES			ACCEPT	DEFICIENCIES		



Sample of Deficiencies

RECORDS ANALYSIS

	FACIAL PHOTOS	INTRAORAL PHOTOS	INTRAORAL RADIOGRAPHS	PERIO RECORD	CEPH. & TRACING	COMP. TRACING	DENTAL CASTS	CASE REPORT	PRESENT. QUALITY	
PRE-TX A &/or PROG A1	● 0 ○ 1	● 0 ○ 1	● 0 ○ 1	● 0 ○ 1	○ 0 ● 1		● 0 ○ 1			
FINAL B	● 0 ○ 1	● 0 ○ 1	● 0 ○ 1	● 0 ○ 1	○ 0 ● 1	○ 0 ● 1	● 0 ○ 1	● 0 ○ 1	● 0 ○ 1	SUB-TOTAL RECORDS ANALYSIS
										3

Sample of Deficiencies

OVERALL ANALYSIS

Treatment Planning/ Mechanotherapy	Final Treatment Results	
0-Acceptable DX/TX planning/mechanotherapy ▼	1-Deficient in 1 aspect of care ▼	
	Premolar would have provided a better finilization	
		SUB-TOTAL OVERALL ANALYSIS 1

Sample of Deficiencies

<u>1</u> TO NA mm	4.6		6.3	1.7	A-P MX	<input type="text" value="Hold 6's - maximum with headgear"/> <input type="text" value="Procline incisors"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 0 <input checked="" type="radio"/> 1	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 0 <input checked="" type="radio"/> 1	<input type="text" value="0"/>	<input type="text" value="2"/>
<u>1</u> TO SN°	102.4		108.4	6						

MANDIBULAR ARCH FORM	OV		OV	SAME	ARCH FORM MN	<input type="text" value="No change planned"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 0 <input checked="" type="radio"/> 1	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 0 <input checked="" type="radio"/> 1	<input type="text" value="0"/>	<input type="text" value="2"/>
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Sample of Deficiencies

•C-R Eval	14	12 DIFF
•CMF	10	1 DIFF

\perp TO NA mm	5.5		7.8	2.3	A-P MX	Normoclone incisors.	<input type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 0 <input checked="" type="radio"/> 1	<input type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 0 <input checked="" type="radio"/> 1	0	2
\perp TO SN°	104.1		111.3	7.2		A-P MN	Normoclone incisors.	<input type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 0 <input checked="" type="radio"/> 1	<input type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 0 <input checked="" type="radio"/> 1	0
$\bar{\perp}$ TO NB mm	3.1		7.3	4.2						
$\bar{\perp}$ TO MP	80.1		98	17.9						

RECORDS ANALYSIS

	FACIAL PHOTOS	INTRAORAL PHOTOS	INTRAORAL RADIOGRAPHS	PERIO RECORD	CEPH. & TRACING	COMP. TRACING	DENTAL CASTS	CASE REPORT	PRESENT. QUALITY	
PRE-TX A &/or PROG A1	<input checked="" type="radio"/> 0 <input type="radio"/> 1	<input type="radio"/> 0 <input checked="" type="radio"/> 1	<input checked="" type="radio"/> 0 <input type="radio"/> 1	<input checked="" type="radio"/> 0 <input type="radio"/> 1	<input checked="" type="radio"/> 0 <input type="radio"/> 1		<input checked="" type="radio"/> 0 <input type="radio"/> 1			
FINAL B	<input checked="" type="radio"/> 0 <input type="radio"/> 1	<input checked="" type="radio"/> 0 <input type="radio"/> 1	<input checked="" type="radio"/> 0 <input type="radio"/> 1	<input checked="" type="radio"/> 0 <input type="radio"/> 1	<input checked="" type="radio"/> 0 <input type="radio"/> 1	<input type="radio"/> 0 <input checked="" type="radio"/> 1	<input checked="" type="radio"/> 0 <input type="radio"/> 1	<input checked="" type="radio"/> 0 <input type="radio"/> 1	<input checked="" type="radio"/> 0 <input type="radio"/> 1	SUB-TOTAL RECORDS ANALYSIS 2

OVERALL ANALYSIS

Treatment Planning/ Mechanotherapy	Final Treatment Results	
0-Acceptable DX/TX planning/mechanotherapy	3-Deficiencies in 3 or more aspects of care	
	proclined maxillary teeth proclined mandibular teeth, both by arch expansion arch form totally changed in an adult	
		SUB-TOTAL OVERALL ANALYSIS 3

TOTAL

10

Sample of Deficiencies

TRANS MX	Maintain.
TRANS MN	Maintain.
TRANS ANT	Maintain.
CURVE OF SPEE	Maintain.

Treatment Objective Sample Descriptors

	Arch	A-P	Vertical	Transverse
Skeletal Analysis	Maxillary	No change, no growth expected Minimal growth expected Norm. growth expected Hold, Restrict Advance ____ mm Retract ____ mm	No change, no growth expected Minimal growth expected Norm growth expected Hold Intrude (Post ____ mm/ Ant ____ mm) Downgraft (Post ____ mm/ Ant ____ mm) Correct vertical asymmetry: _____	No change Expand (____ mm) Constrict (____ mm)
	Mandibular	No change, no growth expected Minimal growth expected Norm. growth expected (mostly horizontal) Norm. growth expected (equal horiz & vert) Norm. growth expected (mostly vertical) Adv Pg - autorotation by controlling vertical Advance Pg ____ mm Set back Pg ____ mm	No change, no vertical growth expected Minimal vertical growth expected Norm vertical growth expected Excess vertical growth expected Plan to rotate clockwise – increase LFH Plan to rotate counter-clockwise –decrease LFH Correct vertical asymmetry _____	No change Expand (____ mm) – surg. Constrict (____ mm) – surg.

	Arch	A-P	Vertical	Transverse
Dental Analysis	Maxillary	No change expected or planned Expect norm growth, no anchorage planned Hold 6's – Maximum Hold 6's – Moderate (allow mesial 2-3mm) Advance 6's: UR6 ____ mm, UL6 ____ mm Tip back/Dist 6's: UR6 ____ mm, UL6 ____ mm ----- No incisor change expected Hold incisors Advance / flare incisors ____ mm ____ deg Retract / upright incisors ____ mm ____ deg Maintain incisor angulation Angulation change, (circle) + or - , ____ degrees	No change expected or planned Expect norm development Hold 6's – Maximum Hold 6's – Moderate Intrude 6's ____ mm Extrude 6's ____ mm ----- No incisor change expected or planned Hold incisors Intrude incisors ____ mm Extrude incisors ____ mm	No change planned Expand molars ____ mm Expand premolars ____ mm ----- Expand canines ____ mm Constrict canines ____ mm ARCH FORM: Maintain Alter to: _____
	Mandibular	No change expected or planned Expect norm growth, no anchorage planned Hold 6's – Maximum Hold 6's – Moderate (allow mesial 2-3mm) Advance 6's: UR6 ____ mm, UL6 ____ mm Tip back/Dist 6's: UR6 ____ mm, UL6 ____ mm ----- No incisor change expected Hold incisors Advance / flare incisors ____ mm ____ deg Retract / upright incisors ____ mm ____ deg Maintain incisor angulation Angulation change, (circle) + or - , ____ degrees	No change expected or planned Expect norm development Hold 6's – Maximum Hold 6's – Moderate Intrude 6's ____ mm Extrude 6's ____ mm ----- No incisor change expected or planned Hold incisors Intrude incisors ____ mm Extrude incisors ____ mm	No change planned Expand molars ____ mm Expand premolars ____ mm ----- Expand canines ____ mm Constrict; ____ mm ARCH FORM: Maintain Alter to: _____

	Arch	A-P	Vertical	Transverse
Facial Analysis	Facial Esthetics	No change planned or required	Expect norm increase in facial ht	Maintain alar base width
		Reduce facial convexity	No change expected	Smile esthetics (be specific):
		Increase facial convexity	Decrease LFH	
		Hold lips but retract relative to nose/chin, E-plane	Reduce Lip Incompetence	
		Retract U lip ____ mm (Estim actual change)	Increase LFH	
		Retract L lip ____ mm (Estim actual change)	Minimize increase in LFH with mechanics	
		Advance U&L lips relative to E-line	Expect significant increase in LFH with growth	
		Advance U lip ____ mm (Estim actual change)	Incisal display (increase, decrease)	
		Advance L lip ____ mm (Estim actual change)	Alter smile arc (maintain, increase or decrease)	
		Increase chin projection (w growth, w surgery)	Reduce gingival display	

Sample of Deficiencies

•C-R Eval | 25 | 12 DIFF
 •CMF | 9 | 1 DIFF

\perp TO NA mm	6.5		0.8	5.7	A-P MX	Anticipated some retroclination of upper incisors due to retraction	<input type="radio"/> 0	<input type="radio"/> 0	1	2
\perp TO SN°	106.2		84.7	21.5			<input type="radio"/> 1	<input type="radio"/> 1		

Treatment Planning/ Mechanotherapy	Final Treatment Results	
3-Deficiencies in 3 or more aspects of DX/TX	3-Deficiencies in 3 or more aspects of care	
1. The anchorage methodology mentioned is insufficient for the treatment plan presented. 2. Inadequate control of the posterior anchorage 3. Inadequate control of the maxillary incisor anchorage and root torque	1. The bi-maxillary protrusion was insufficiently corrected 2. Radiographically, the maxillary central incisor root structures appear to have perforation the labial plate . 3. The anchorage loss value is 3:1 maxillary posterior to anterior. 4. Maxillary incisor VME has been increased from the initial pre-treatment position	SUB-TOTAL OVERALL ANALYSIS 6

Sample of Deficiencies

•C-R Eval	34	21 DIFF
•CMF	11	1 DIFF

RECORDS ANALYSIS

	FACIAL PHOTOS	INTRAORAL PHOTOS	INTRAORAL RADIOGRAPHS	PERIO RECORD	CEPH. & TRACING	COMP. TRACING	DENTAL CASTS	CASE REPORT	PRESENT. QUALITY	
PRE-TX A &/or PROG A1	● 0 ○ 1	● 0 ○ 1	● 0 ○ 1	● 0 ○ 1	● 0 ○ 1		● 0 ○ 1			
FINAL B	● 0 ○ 1	● 0 ○ 1	● 0 ○ 1	● 0 ○ 1	○ 0 ● 1	● 0 ○ 1	● 0 ○ 1	○ 0 ● 1	○ 0 ● 1	SUB-TOTAL RECORDS ANALYSIS 3

Treatment Planning/ Mechanotherapy	Final Treatment Results	
2-Deficiency in 2 aspects of DX/TX plan/mech	2-Deficiencies in 2 aspects of care	
Fail to evaluate the amount of proclination of mandibular incisor and attempt to correct Fail to recognize the amount of mandibular crowding due to increase curve of Spee failed to diagnose properly and failed to correct skeletal problem	Fail to deliver appropriate extraction case to prevent lower incisor further proclination Facial bone on the vestibular side is absent Deep bite corrected at the expense of the proper lower incisor position with periodontal consequences	SUB-TOTAL OVERALL ANALYSIS 4

Sample of Deficiencies

RECORDS ANALYSIS

	FACIAL PHOTOS	INTRAORAL PHOTOS	INTRAORAL RADIOGRAPHS	PERIO RECORD	CEPH. & TRACING	COMP. TRACING	DENTAL CASTS	CASE REPORT	PRESENT. QUALITY	
PRE-TX A &/or PROG A1	<input checked="" type="radio"/> 0 <input type="radio"/> 1	<input checked="" type="radio"/> 0 <input type="radio"/> 1	<input checked="" type="radio"/> 0 <input type="radio"/> 1	<input checked="" type="radio"/> 0 <input type="radio"/> 1	<input type="radio"/> 0 <input checked="" type="radio"/> 1		<input checked="" type="radio"/> 0 <input type="radio"/> 1			
FINAL B	<input checked="" type="radio"/> 0 <input type="radio"/> 1	<input checked="" type="radio"/> 0 <input type="radio"/> 1	<input checked="" type="radio"/> 0 <input type="radio"/> 1	<input checked="" type="radio"/> 0 <input type="radio"/> 1	<input checked="" type="radio"/> 0 <input type="radio"/> 1	<input checked="" type="radio"/> 0 <input type="radio"/> 1	<input checked="" type="radio"/> 0 <input type="radio"/> 1	<input type="radio"/> 0 <input checked="" type="radio"/> 1	<input checked="" type="radio"/> 0 <input type="radio"/> 1	SUB-TOTAL RECORDS ANALYSIS 2

OVERALL ANALYSIS

Treatment Planning/ Mechanotherapy	Final Treatment Results	
1-Deficiency in 1 aspect of DX/TX plan/mech <input type="checkbox"/>	1-Deficient in 1 aspect of care <input type="checkbox"/>	
too much expansion <input type="checkbox"/>	stability of lower incisors?? <input type="checkbox"/>	
		SUB-TOTAL OVERALL ANALYSIS 2

Sample of Deficiencies

$\underline{1}$ TO NA mm	2.2		1.2	1	A-P MX	Class I molar and canine relationship, establish ideal overjet, procline U-1	<input type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 0 <input type="radio"/> 1	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 0 <input checked="" type="radio"/> 1	0	1
$\underline{1}$ TO SN°	86.2		88.1	1.9						
$\bar{1}$ TO NB mm	4.1		5.6	1.5	A-P MN	Class I molar and canine relationship, establish ideal overjet	<input type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 0 <input type="radio"/> 1	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 0 <input checked="" type="radio"/> 1	0	1
$\bar{1}$ TO MP	81		86.4	5.4						

OVERALL ANALYSIS

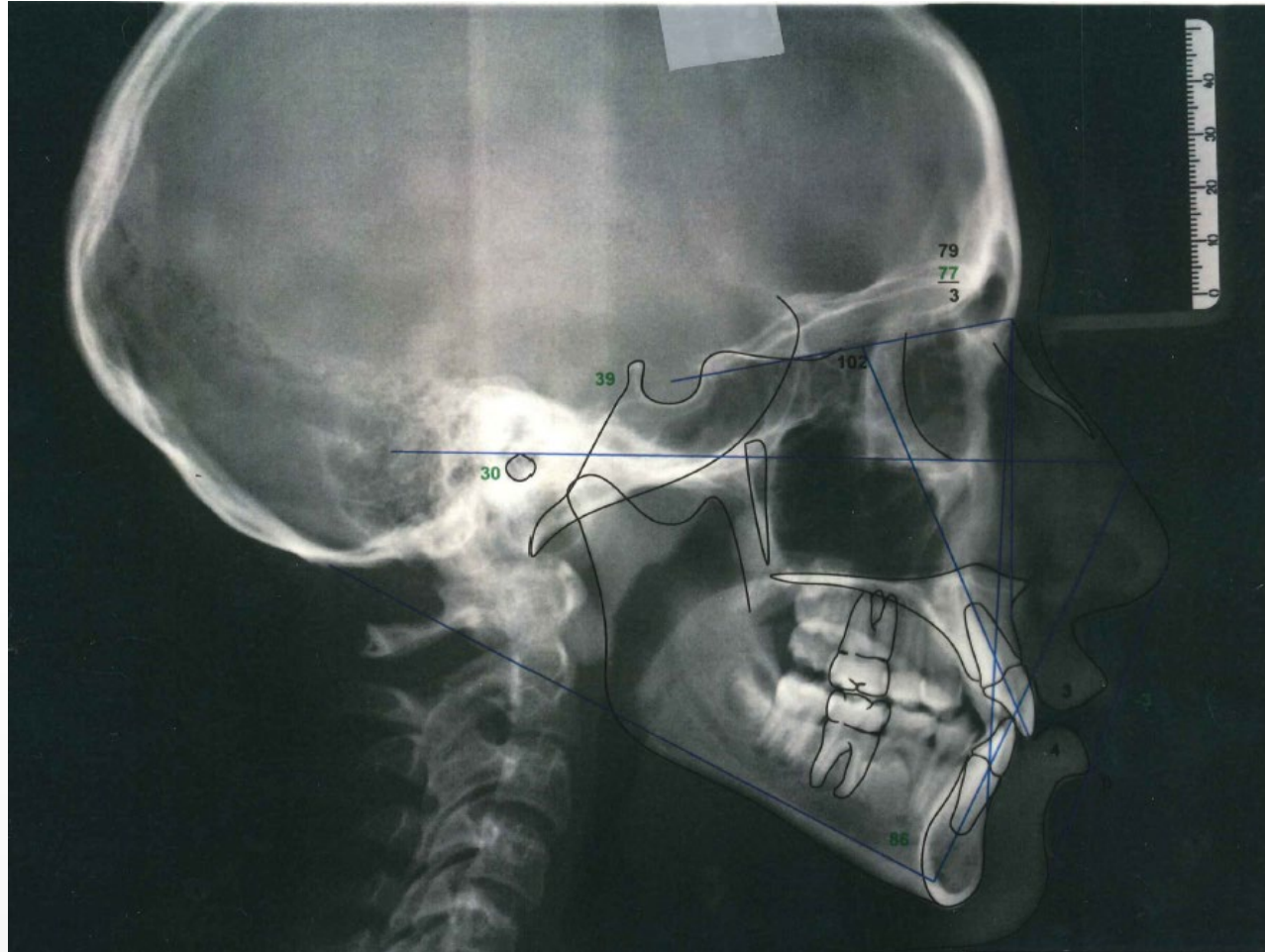
Treatment Planning/ Mechanotherapy	Final Treatment Results	
1-Deficiency in 1 aspect of DX/TX plan/mech	1-Deficient in 1 aspect of care	
No plan to control tongue habit	Shallow overbite	
		SUB-TOTAL OVERALL ANALYSIS 2

Sample of Deficiencies

OVERALL ANALYSIS

Treatment Planning/ Mechanotherapy	Final Treatment Results	
2-Deficiency in 2 aspects of DX/TX plan/mech	0-Acceptable level of care	
More anchorage prep needed Cl II mechanics caused flair of lower incisors	Attention to detail with finishing needed Unstable position of lower incisors	
		SUB-TOTAL OVERALL ANALYSIS 2

Poor Superimpositions/Tracings



Applications

- Treatment planning aid with stated objectives
- Educational aid at departmental case presentations
- Self assessment
- Record quality assessment
- Testing tool
- Critical evaluating change over time
- Clinical management tool

Q&A SESSION



THANK YOU!