

CASE: 0000 0031 1
ADULT FEMALE
Dr. TRAINING
F (CA) Caucasian
AGE: 53.0

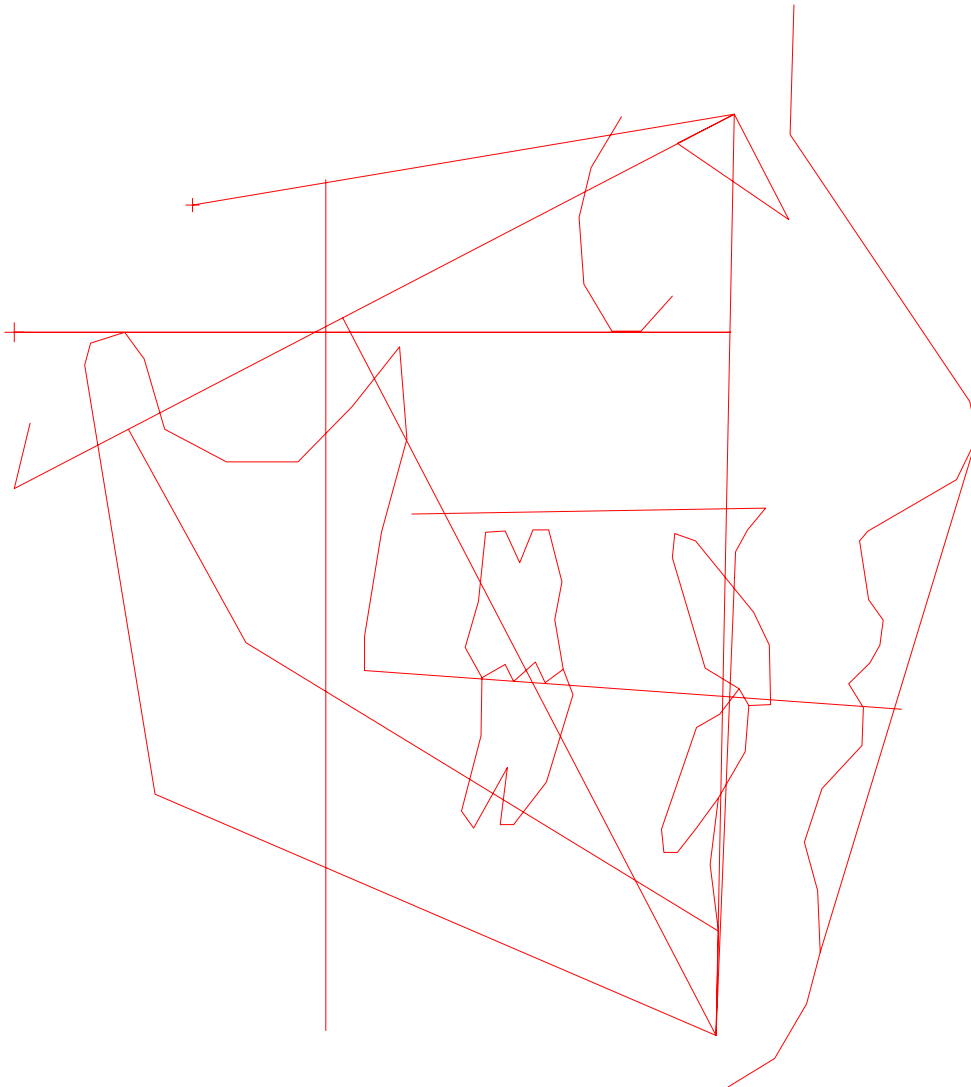
VISUAL NORMS

RMO®

X: 10/30/2002 - R: 02/20/2003

MISSING PERMANENT TEETH

R $\frac{8}{8}$ $\frac{5}{4}$ | $\frac{5}{4}$ $\frac{8}{8}$ L



ADULT FEMALE
Dr. Training

RMO Case Number: 0000 0031 1
RMO Run date: 02/20/2003

X-Ray date: 10/30/2002 Age: 53.0
Birthdate: 11/01/1949 Sex: Female 1

Reference: C C D 1

C C D - O R T H O D O N T I C C O N D I T I O N S

LATERAL BEFORE TREATMENT

FACTOR	MEASURED VALUE	CLINICAL NORM	CLINICAL DEVIATIONS FROM NORM
# - Appears on tracing			

===== DENTAL RELATIONS =====

01 Molar Relation	-1.2 mm	-3.0 mm	0.6
03 Canine Relation	-0.9 mm	-2.0 mm	0.4
05 Incisor Overjet	2.6 mm	2.5 mm	0.0
07 Incisor Overbite	2.0 mm	2.5 mm	-0.3
09 Mand Incisor Extrusion	2.1 mm	1.3 mm	0.4
#11 Interincisal Angle	132.8 dq	130.0 dq	0.5

===== DENTAL TO SKELETON =====

#18 A6 Molar Position to PTV	24.8 mm	18.0 mm	2.3 **
#20 B1 to A-Po Plane	3.5 mm	1.0 mm	1.1 *
22 A1 to A-Po Plane	5.9 mm	3.5 mm	1.1 *
#24 B1 Inclination to A-Po	25.4 dg	22.0 dg	0.8
26 A1 Inclination to A-Po	21.8 dg	28.0 dg	-1.5 *
27 Occlusal Plane to Xi	0.7 mm	-2.2 mm	1.0 *
28 Inclination of Occl Plane	23.1 dq	25.7 dq	-0.6
54 B1 Inclination to FH	58.7 dg	65.0 dg	-1.3 *

===== ESTHETICS =====

29 Lower Lip to Esthetic Plane	-0.9 mm	-2.3 mm	0.7
30 Upper Lip Length	32.7 mm	26.4 mm	3.1 ***
31 Lip Embrasure to Occl Plane	-1.1 mm	-3.0 mm	0.9
58 NasoLabial Angle	107.0 dq	115.0 dq	-1.6 *

===== NASOPHARYNGEAL AIRWAY =====

62 N-S-Ba	131.8 dg	129.6 dg	0.4
63 Ba-S-PNS	57.6 dg	63.0 dg	-2.2 **
85 Airway Percent	83.4 %	66.1 %	1.2
86 Linder-Aronson AD1	28.7 mm	27.8 mm	0.2
87 Linder-Aronson AD2	23.6 mm	23.6 mm	0.0
88 Distance PTV to Adenoid	20.7 mm	16.2 mm	0.8

C C D - S K E L E T A L C O N D I T I O N S

LATERAL BEFORE TREATMENT

FACTOR	MEASURED VALUE	CLINICAL NORM	CLINICAL DEVIATIONS FROM NORM
# - Appears on tracing			

===== SKELETAL RELATIONS =====

#13 Convexity	4.7 mm	1.0 mm	1.9 *
#15 Lower Facial Height	49.9 dg	45.0 dg	1.2 *
84 Present Patient Height	NOT AVAILABLE		
91 Posterior face height	76.4 mm		
92 Anterior face height	126.3 mm		
93 Posterior/Anterior ratio	60.5 %		
94 Saddle Angle	121.2 dg	123.0 dg	-0.6
96 Condylion-A point	87.4 mm	90.7 mm	-0.6
97 Condylion-Gnathion	121.8 mm	116.8 mm	0.7
95 Max-Mand Differential	34.3 mm	28.0 mm	2.0 **
98 Menton-ANS	76.4 mm	66.7 mm	1.7 *

===== JAW TO CRANIUM =====

#32 Facial Depth	89.0 dg	88.6 dg	0.1
#34 Facial Axis	85.3 dq	90.0 dq	-1.4 *
#36 Maxillary Depth	93.7 dg	90.0 dg	1.2 *
37 Maxillary Height	55.7 dg	55.5 dg	0.0
38 Palatal Plane to FH	3.4 dg	1.0 dg	0.7
#39 Mandibular Plane to FH	28.1 dg	24.2 dg	0.9
77 Ba-N-A	66.0 dg	63.0 dg	1.0 *
76 S-N-A	82.5 dg	82.0 dg	0.2
78 S-N-B	77.0 dg	80.0 dg	-0.8
69 A-N-B Difference	5.5 dg	2.0 dg	1.3 *
75 Total Facial Height	63.9 dg	60.0 dg	1.3 *

===== INTERNAL STRUCTURE =====

40 Cranial Deflection	30.1 dg	27.0 dg	1.0 *
42 Cranial Length Anterior	57.7 mm	61.6 mm	-1.6 *
44 Ramus Height (CF-Go)	67.1 mm	62.5 mm	1.4 *
46 Ramus Xi Position	76.0 dg	76.0 dg	0.0
48 Porion Location (Por to PTV)	-35.9 mm	-42.4 mm	3.0 ***
#50 Mandibular Arc	33.9 dg	29.2 dg	1.2 *
51 Corpus Length	73.9 mm	73.6 mm	0.1

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Dr. Training

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X-Ray date: 10/30/2002 Age: 53.0
Birthdate: 11/01/1949 Sex: Female 1

Reference: I N F O

P A T I E N T I N F O R M A T I O N

===== NAME =====

Patient name: ADULT FEMALE
Doctor name: TRAINING
Age: 53.0
X-Ray date: 10/30/2002
RMO Case Number:
RMO Run date: 02/20/2003

===== MISSING PERMANENT TEETH =====

8 5 | 5 8
R -----+----- L
8 4 | 4 8

===== HEIGHT PREDICTION =====

Patient has reached adult height

===== AIRWAY ANALYSIS =====

If the patient is clinically diagnosed
as a mouthbreather, observed mouthbreathing
is probably not caused by adenoid blockage
of the airway.

===== BOLTON ANALYSIS =====

Not Available - Upper and lower arch not analyzed

S I G N I F I C A N T C O N S I D E R A T I O N S

CONDITION

CCD FACTORS

===== HORIZONTAL =====

Skeletal Class II
due to the maxilla

13
32,36

===== VERTICAL =====

Skeletal Open Bite
due to the mandible & palate

15
39

===== TRANSVERSE =====

===== SYMMETRY =====

===== SPECIAL CONSIDERATIONS =====

===== COMMENTS =====

No analysis of frontal x-ray. Upper and lower arch
expansion decisions based on available data only.

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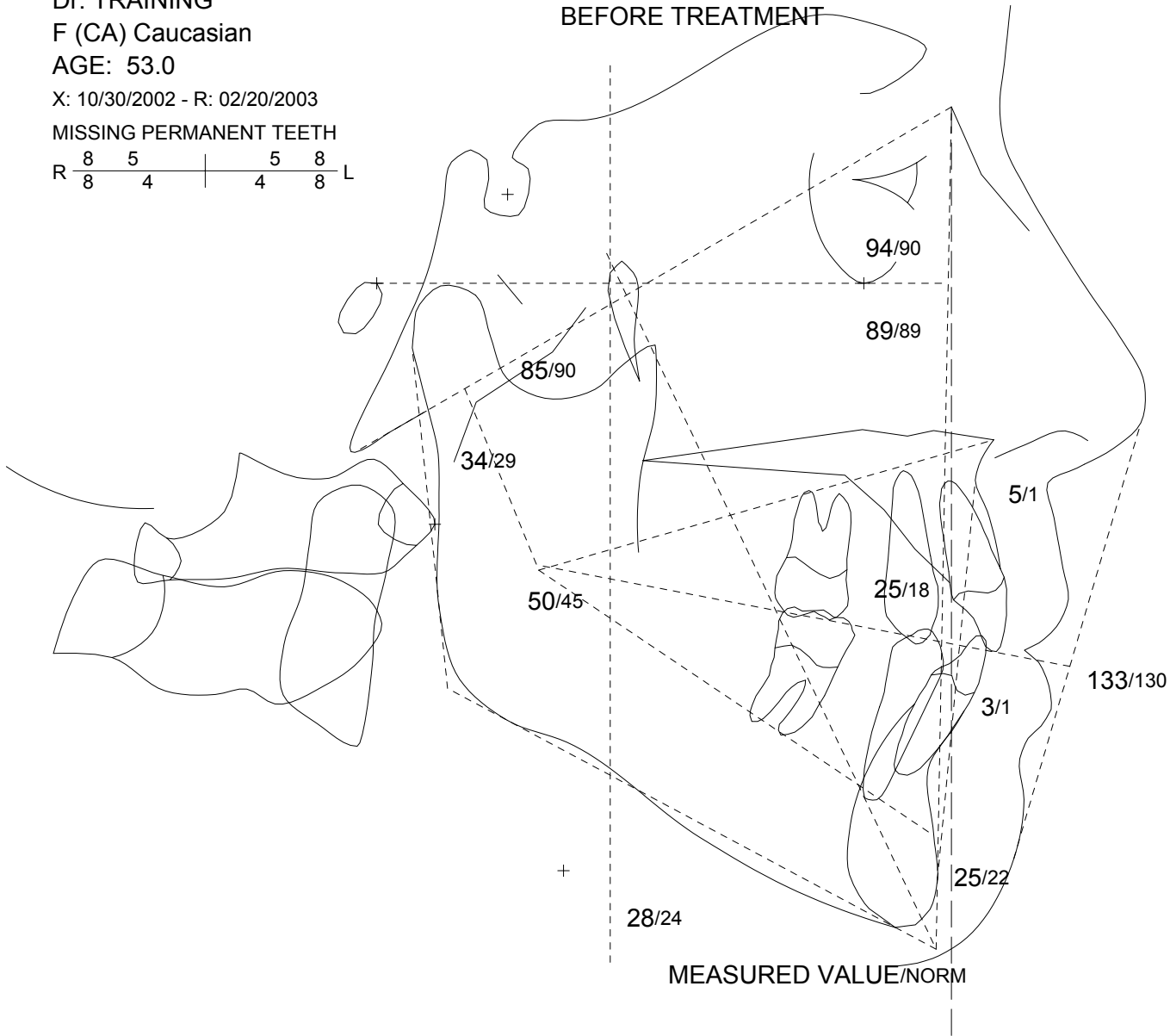
MISSING PERMANENT TEETH

R $\frac{8}{8}$ $\frac{5}{4}$ | $\frac{5}{4}$ $\frac{8}{8}$ L

TRACING

RMO®

BEFORE TREATMENT

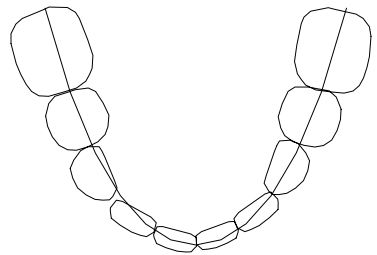


SIGNIFICANT CONSIDERATIONS

CONDITION
 Skeletal Class II
 Skeletal Open Bite
 Adenoid blockage of the airway?

REASON
 due to the maxilla
 due to the mandible & palate
 Probably not

R L



EXCESS 0.4 MM
 LEEWAY 0.0 MM

FACIAL PATTERN: MESOFACIAL

# FACTORS	MEASURED VALUE	NORM	CLINICAL DEVIATION
Interincisal Angle	132.8 dg	130.0 dg	0.5
Convexity	4.7 mm	1.0 mm	1.9 *
Lower Facial Height	49.9 dg	45.0 dg	1.2 *
A6 Molar Position to PTV	24.8 mm	18.0 mm	2.3 **
B1 to A-Po Plane	3.5 mm	1.0 mm	1.1 *
B1 Inclination to A-Po	25.4 dg	22.0 dg	0.8
Facial Depth	89.0 dg	88.6 dg	0.1
Facial Axis	85.3 dg	90.0 dg	-1.4 *
Maxillary Depth	93.7 dg	90.0 dg	1.2 *
Mandibular Plane to FH	28.1 dg	24.2 dg	0.9
Mandibular Arc	33.9 dg	29.2 dg	1.2 *

ADULT FEMALE
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Reference: G T C

===== G U I D E T O A L T E R N A T I V E T R E A T M E N T P L A N N I N G =====

Facial Pattern -0.2 C.D. Probability of Lower Third Molar
Vertical Description MESOFACIAL (based on space available)
Not Applicable
3rd Molars Missing

Auxiliary Appliances
Headgear HIGH PULL
LIGHT FORCES
Activator NOT INDICATED
Palate Separation N/A - No Arch and Frontal data
Convexity Objective Reduce 2.0 mm

Lower Arch Length Discrepancy (original arch) 0.4 mm Excess
Including useable leeway (E) space

* * * L O W E R A R C H * * *	Required Tooth Movement	Effect on Arch Length	Resulting Discrepancy
Lower Incisor to Ideal	Lt: 2.4 mm Bwd. Rt: 2.9 mm Bwd.	5.0 mm Decrease	4.6 mm Shortage
Buccal Expansion to Ideal Arch Form		2.5 mm Increase	2.1 mm Shortage
Incisors & Convexity to Cephalometric Limit	1.9 mm Fwd.	3.8 mm Increase	1.7 mm Excess
Lower Molar Distal Movement	2.0 mm	4.0 mm Increase	Not Req'd

* * * U P P E R A R C H * * *

Movement of First Molar (non-ext.)
Required for Class I 1.9 mm Distal
Clinical Limit 1.5 mm Distal
Resulting Expected Space for 2nd & 3rd
Molars at Maturity (non-ext.) 23.2 mm
Required Space for 2nd Molars 9.0 mm to 11.0 mm
Required Space for 2nd & 3rd Molars 18.0 mm to 22.0 mm

*** Indicated Treatment using Dr's Personalized Decision Program ***

Upper Arch CLOSE SPACE
Lower Arch CLOSE SPACE
Lower Incisor Backward 0.8 mm
Buccal Expansion Gain 2.5 mm
Lower Molar Movement Forward 0.6 mm

Teeth Sizes: L6 L5 L4 L3 L2 L1 R1 R2 R3 R4 R5 R6 TOTAL SUM OF INCISOR NORM
Lower Arch : 11.0 7.7 7.1 7.6 6.6 5.9 5.9 6.6 7.6 7.1 7.7 11.3 92.1 25.0 MM 23.3

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Reference: W R C

W O R K U P

===== ORIGINAL CONDITION =====

Facial pattern: -0.2 CD - Mesofacial
 Lower arch form: Narrow tapered

	8	5		5	8
Missing permanent teeth:	R	-----+-----			L
	8	4		4	8

Lower arch length discrepancy (ALD) 0.4 mm EXCESS
 Leeway space 0.0 mm ---
 Maximum use of leeway space 0.0 mm
 Total arch length discrepancy 0.4 mm EXCESS

===== COMPUTER DECISION =====

based on Dr. Training's individualized standards

UPPER ARCH: CLOSE SPACE

Convexity change REDUCE 2.0 mm

LOWER ARCH: CLOSE SPACE

Lower incisor BACKWARD 0.8 mm

Buccal Expansion GAIN 2.5 mm

Lower molar FORWARD 0.6 mm

Extracted teeth

R -----+----- L

===== AUXILIARY APPLIANCES =====

Activator: NOT INDICATED
 Palate separation: N/A - No Arch and Frontal data
 Headgear: HIGH PULL
 LIGHT FORCES

===== POST TREATMENT =====

Pentamorphic arch form: Narrow tapered

R A T I O N A L E

===== REASONS FOR LOWER ARCH DECISION =====

Mandibular Arch Length Analysis

1. Initial Conditions
 - A. Original Arch Length 0.4 mm excess
 - B. Useable Leeway Space 0.0 mm
 - C. Total Initial Discrepancy (A+B) 0.4 mm excess
2. Maximum Permissible Arch Length Increase (Within Doctor Limits)
 Due To:
 - D. Lower Incisor Repositioning 1.2 mm decrease
 - E. Buccal Expansion 2.5 mm increase
 - F. Lower Molar Distal Movement 2.0 mm increase
 - G. Total Possible Increase (D+E+F) 3.3 mm increase
3. Resultant Arch Length Discrepancy 3.7 mm excess
 Considering All Possible Arch Length Increases (C+G)
4. Resultant Computer Decision Close Space
5. Work-Up Presented Is CLOSE SPACE

===== REASONS FOR UPPER ARCH DECISION =====

1. Convexity change 2.0 mm reduce
2. Upper incisor tip movement for overbite/overjet ideal to lower 0.2 mm backward
3. First molar movement required 0.0 mm forward
4. First molar movement clinical limit 1.5 mm backward
5. Work-Up Presented Is CLOSE SPACE

===== COMMENTS =====

ADULT FEMALE
0000 0031 1

F 53.0

SEQUENCES WORKSHEET

02/20/2003
CLOSE SPACE

RMO®

UPPER ARCH				LOWER ARCH			
ACTIVITY	DESCRIPTION	MONTHS	NOTES	ACTIVITY	DESCRIPTION	MONTHS	NOTES
	CORRECT CONVEXITY DISTALIZE 6 RETRACT 4 AND/OR 5	0			INTRUDE 1	0	
		1				1	
		2				2	
		3				3	
		4				4	
PROGRESS RECORDS		0		PROGRESS RECORDS	ALIGN/LEVEL BUCCAL SEGS	0	
		5				5	
		6				6	
		7				7	
		8				8	
	RETRACT 3	0			IDEAL ARCH	0	
		8				8	
		9				9	
		10				10	
		11				11	
	ALIGN/LEVEL BUCCAL SEGS	1				1	
		1				1	
		2				2	
		3				3	
		4				4	
	IDEAL ARCH	1				1	
		5				5	
		6				6	
		7				7	
		8				8	
	FINAL ARCH	1			FINAL ARCH	1	
		9				9	
		20				20	
		21				21	
		22				22	
POST TX RECORDS		2		POST TX RECORDS		2	
		3				3	
		4				4	

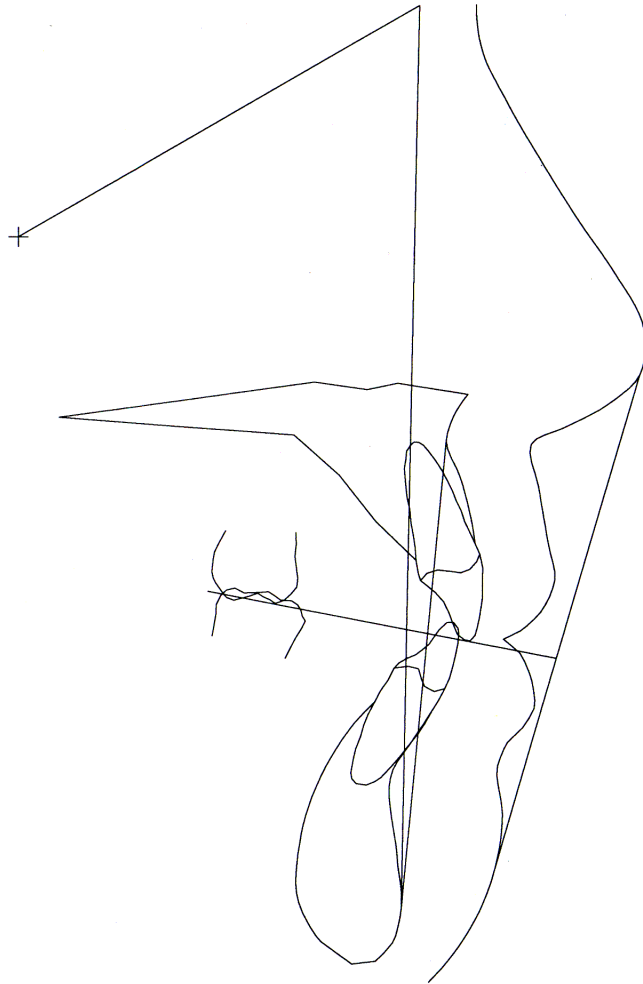
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VISUAL TREATMENT GOAL COMPARISON

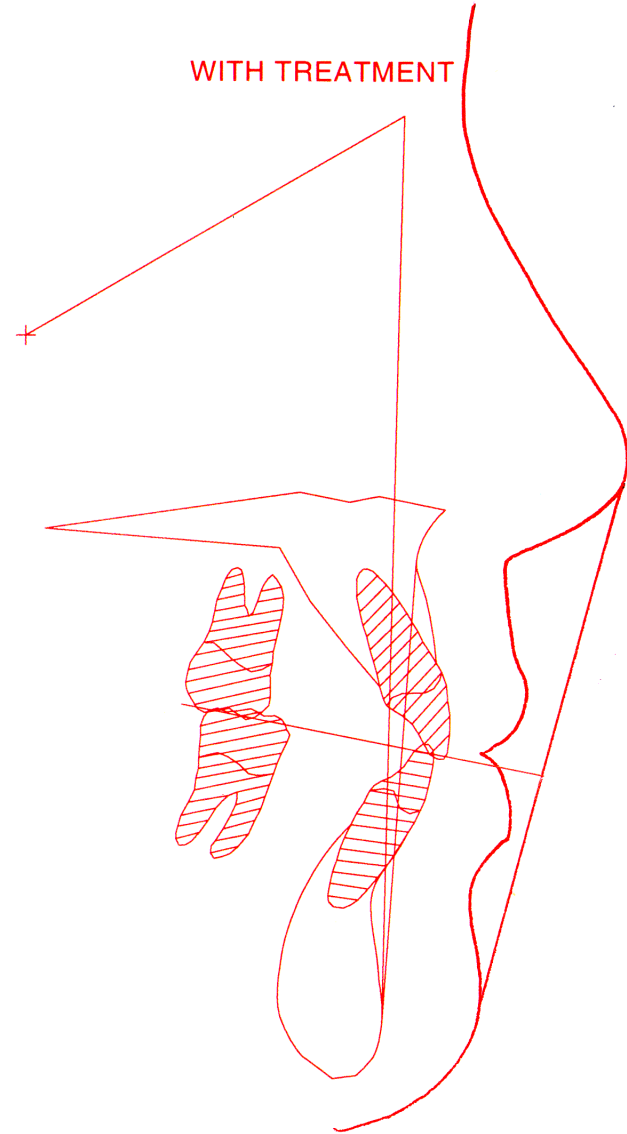
RMO®

CLOSE SPACE

CURRENT CONDITION



WITH TREATMENT



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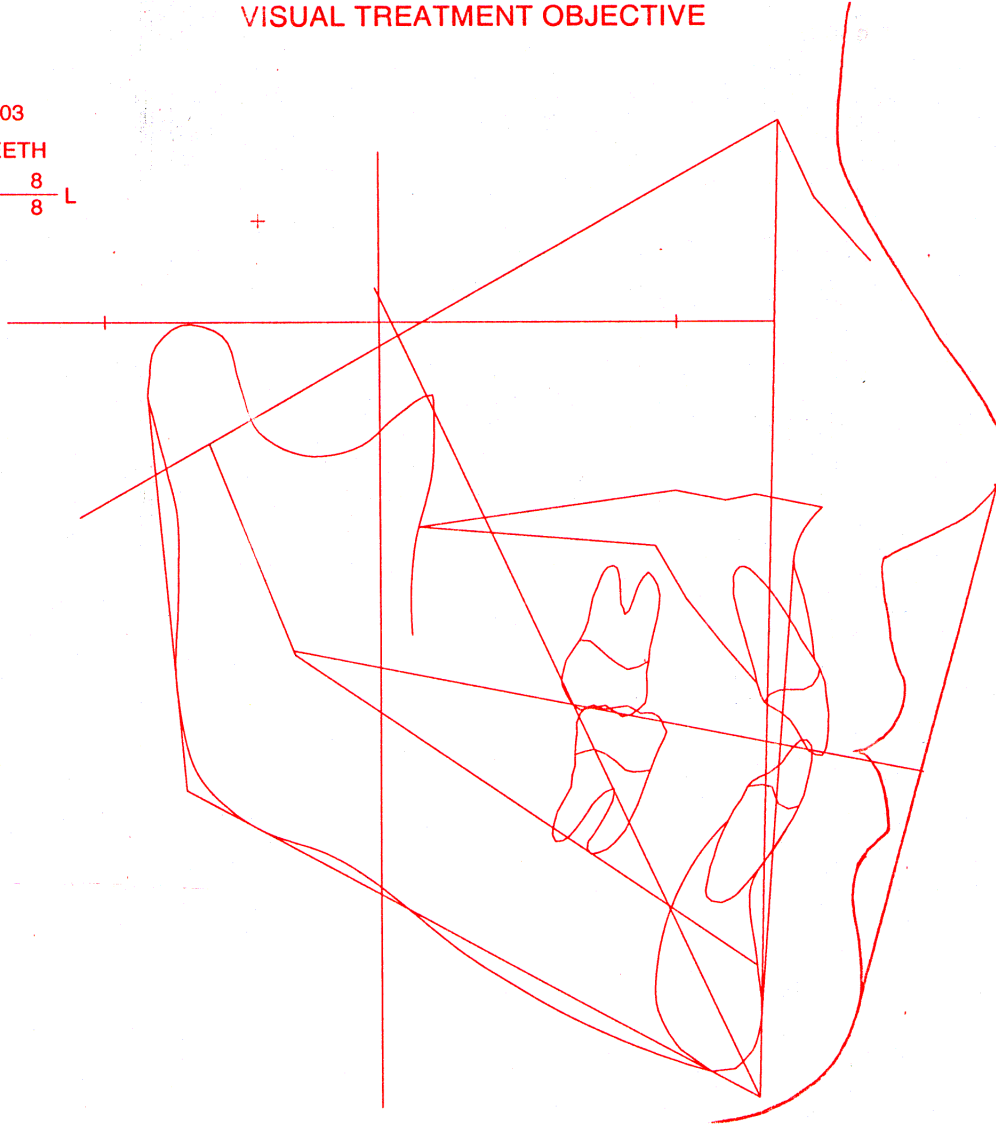
MISSING PERMANENT TEETH

R	8	5	4		4	5	8	L
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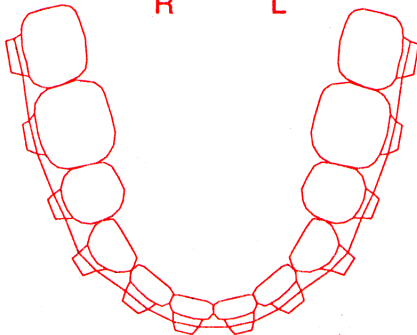
CLOSE SPACE VTO

RMO®

VISUAL TREATMENT OBJECTIVE



SUGGEST
 NARROW TAPERED
 RMO PREFORMED
 PENTAMORPHIC ARCHWIRE
 R L



ESPECIALLY PREPARED FOR Dr. TRAINING

WORKUP PERFORMED

Upper: CLOSE SPACE

Lower: CLOSE SPACE

PREDICTION PERIOD

24.0 months

GROWTH UNITS

24.0 months: 0.0

HEIGHT PREDICTION

Reached adult height


COMMENTS

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CLOSE SPACE TREATMENT DESIGN

RMO®

EXTRACT R  L

MAXILLARY CHANGE

CHANGE IN MAXILLARY TEETH

PT. A MOVEMENT BACKWARD 2.0 MM

UPPER MOLAR CHANGE

CHANGE IN MANDIBULAR TEETH

LOWER INCISOR BWD(RT) 0.8 MM
 LOWER MOLAR FWD 0.6 MM

MANDIBULAR GROWTH

WORKUP PRESENTED

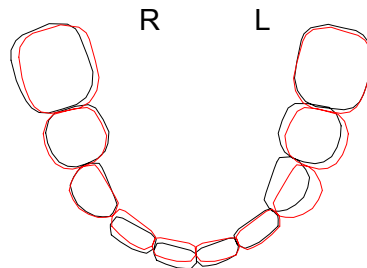
Upper arch: CLOSE SPACE
 Lower arch: CLOSE SPACE

MISSING PERMANENT TEETH

	8	5		5	8	
R	-----+-----					L
	8	4		4	8	

COMMENTS

— ORIGINAL
 — GROWTH W/O TREATMENT
 — TREATMENT OBJECTIVE



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Reference: S A

S T E I N E R A N A L Y S I S

===== BEFORE TREATMENT =====

Factor	Measured Value	Clinical Norm	Clinical Deviations From Norm
SNA	82.5 dg	82.0 dg	0.2
SNB	77.0 dg	80.0 dg	-0.8
ANB	5.5 dg	2.0 dg	1.3 *
SND	74.5 dg	76.0 dg	-0.4
A1 to NA	1.5 mm	4.0 mm	-0.8
A1 to NA	12.3 dg	22.0 dg	-1.2 *
B1 to NB	7.3 mm	4.0 mm	1.4 *
B1 to NB	29.4 dg	25.0 dg	0.6
A1 to B1	132.8 dg	131.0 dg	0.2
OCC.PL/SN	21.9 dg	14.0 dg	1.8 *

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STEINER ANALYSIS

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