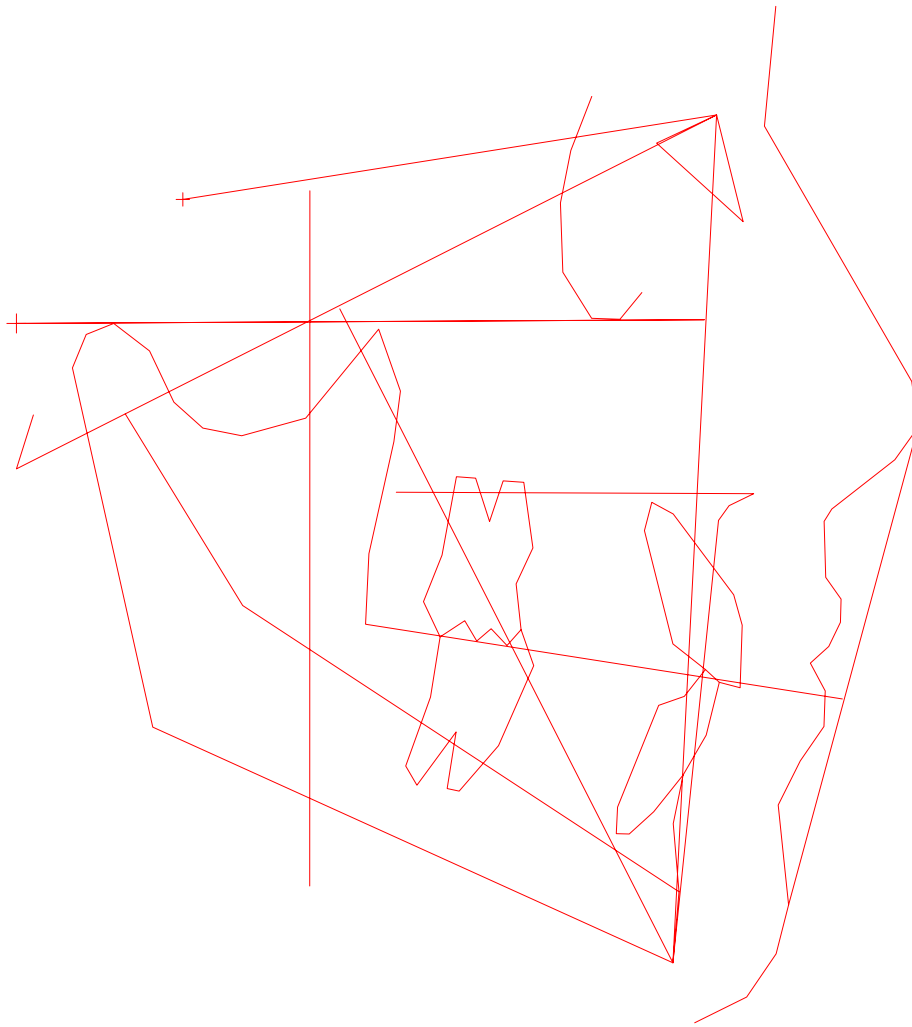


CASE: 0000 0035 1
MIXED DENTITION, FEMALE
Dr. TRAINING
F (CA) Caucasian
AGE: 9.5
X: 08/12/2002 - R: 02/21/2003
MISSING PERMANENT TEETH

VISUAL NORMS

RMO®

R ————— | ————— L



MIXED DENTITION, FEMALE
Dr. Training

RMO Case Number: 0000 0035 1
RMO Run date: 02/21/2003

X-Ray date: 08/12/2002 Age: 9.5
Birthdate: 01/24/1993 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	-2.8 mm	-3.0 mm	0.1
03 Canine Relation	-2.3 mm	-2.0 mm	-0.1
05 Incisor Overjet	6.3 mm	2.5 mm	1.5 *
07 Incisor Overbite	0.6 mm	2.5 mm	-1.0 *
09 Mand Incisor Extrusion	0.7 mm	1.3 mm	-0.3
#11 Interincisal Angle	128.4 dq	130.0 dq	-0.3

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

#18 A6 Molar Position to PTV	13.2 mm	12.5 mm	0.2
#20 B1 to A-Po Plane	0.3 mm	1.0 mm	-0.3
22 A1 to A-Po Plane	6.6 mm	3.5 mm	1.4 *
#24 B1 Inclination to A-Po	18.7 dg	22.0 dg	-0.8
26 A1 Inclination to A-Po	32.9 dg	28.0 dg	1.2 *
27 Occlusal Plane to Xi	1.1 mm	0.6 mm	0.2
28 Inclination of Occl Plane	20.1 dq	22.9 dq	-0.7
54 B1 Inclination to FH	66.5 dg	65.0 dg	0.3

===== ESTHETICS - Lips are open on X-Ray =====

29 Lower Lip to Esthetic Plane	-0.9 mm	-1.2 mm	0.1
30 Upper Lip Length	23.7 mm	24.8 mm	-0.5
31 Lip Embrasure to Occl Plane	-2.1 mm	-3.0 mm	0.4
58 NasoLabial Angle	103.7 dg	115.0 dg	-2.3 **

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

62 N-S-Ba	131.0 dg	129.6 dg	0.3
63 Ba-S-PNS	62.3 dg	63.0 dg	-0.3
85 Airway Percent	66.6 %	55.3 %	0.8
86 Linder-Aronson AD1	24.1 mm	22.4 mm	0.3
87 Linder-Aronson AD2	20.3 mm	17.8 mm	0.6
88 Distance PTV to Adenoid	10.9 mm	9.8 mm	0.3

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	2.8 mm	3.4 mm	-0.3
#15 Lower Facial Height	41.8 dg	45.0 dg	-0.8
84 Present Patient Height	57.0 in	54.5 in	
91 Posterior face height	68.3 mm		
92 Anterior face height	111.4 mm		
93 Posterior/Anterior ratio	61.3 %		
94 Saddle Angle	125.6 dg	123.0 dg	0.9
96 Condylion-A point	86.8 mm	88.1 mm	-0.3
97 Condylion-Gnathion	109.4 mm	104.6 mm	0.9
95 Max-Mand Differential	22.6 mm	21.4 mm	0.4
98 Menton-ANS	60.8 mm	61.6 mm	-0.2

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

#32 Facial Depth	89.0 dg	86.8 dg	0.7
#34 Facial Axis	91.0 dg	90.0 dg	0.3
#36 Maxillary Depth	91.8 dg	90.0 dg	0.6
37 Maxillary Height	57.9 dg	53.4 dg	1.5 *
38 Palatal Plane to FH	-0.5 dg	1.0 dg	-0.4
#39 Mandibular Plane to FH	27.3 dg	25.8 dg	0.3
77 Ba-N-A	65.7 dg	63.0 dg	0.9
76 S-N-A	82.3 dg	82.0 dg	0.1
78 S-N-B	78.6 dg	80.0 dg	-0.4
69 A-N-B Difference	3.7 dg	2.0 dg	0.6
75 Total Facial Height	59.4 dg	60.0 dg	-0.2

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

40 Cranial Deflection	28.2 dg	27.0 dg	0.4
42 Cranial Length Anterior	58.0 mm	57.1 mm	0.3
44 Ramus Height (CF-Go)	52.9 mm	57.4 mm	-1.4 *
46 Ramus Xi Position	75.8 dg	76.0 dg	-0.1
48 Porion Location (Por to PTV)	-38.9 mm	-39.9 mm	0.5
#50 Mandibular Arc	23.2 dg	26.4 dg	-0.8
51 Corpus Length	68.5 mm	67.9 mm	0.2

MIXED DENTITION, FEMALE
Dr. TrainingRMO Case Number: 0000 0035 1
RMO Run date: 02/21/2003X-Ray date: 08/12/2002 Age: 9.5
Birthdate: 01/24/1993 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: MIXED DENTITION, FEMALE
Doctor name: TRAINING
Age: 9.5
X-Ray date: 08/12/2002
RMO Case Number:
RMO Run date: 02/21/2003

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

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

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

Assumed skeletal age: 9.5
Current height: 57.0 inches
Amount of adult growth achieved: 84.6 %
Expected adult height: 67.4 inches

===== 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 =====
Mild Overjet 5

===== VERTICAL =====

===== TRANSVERSE =====

===== SYMMETRY =====

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

===== COMMENTS =====

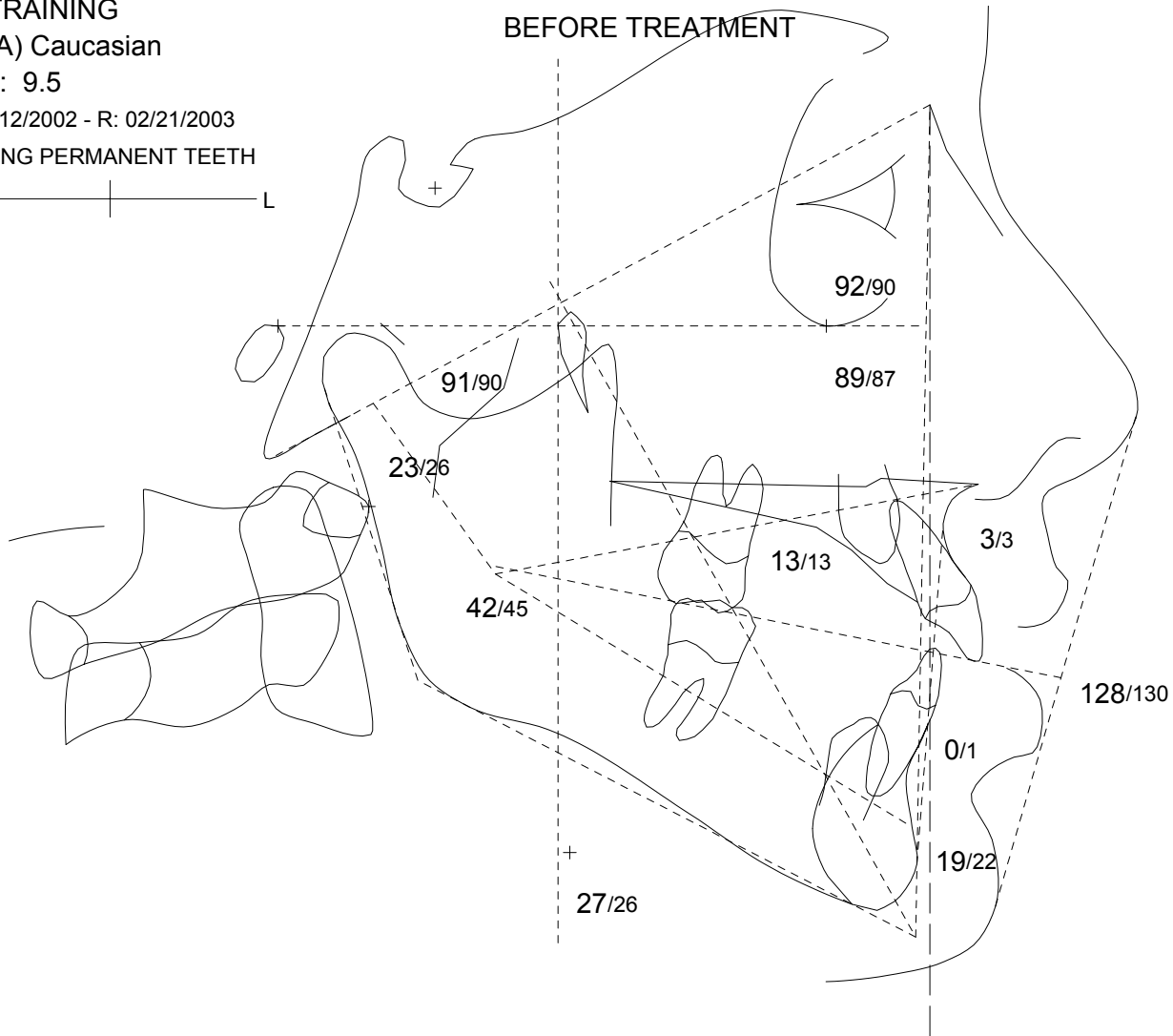
No analysis of frontal x-ray. Upper and lower arch
expansion decisions based on available data only.

CASE: 0000 0035 1
 MIXED DENTITION, FEMALE
 Dr. TRAINING
 F (CA) Caucasian
 AGE: 9.5
 X: 08/12/2002 - R: 02/21/2003
 MISSING PERMANENT TEETH

TRACING

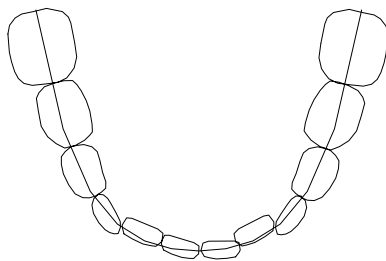
RMO®

R ————— L



MEASURED VALUE/NORM

R L



SHORTAGE 0.5 MM
 LEEWAY 1.5 MM

SIGNIFICANT CONSIDERATIONS			
CONDITION	REASON		
Mild Overjet Adenoid blockage of the airway?	Probably not		
FACIAL PATTERN: MESOFACIAL			
# FACTORS	MEASURED VALUE	NORM	CLINICAL DEVIATION
Interincisal Angle	128.4 dg	130.0 dg	-0.3
Convexity	2.8 mm	3.4 mm	-0.3
Lower Facial Height	41.8 dg	45.0 dg	-0.8
A6 Molar Position to PTV	13.2 mm	12.5 mm	0.2
B1 to A-Po Plane	0.3 mm	1.0 mm	-0.3
B1 Inclination to A-Po	18.7 dg	22.0 dg	-0.8
Facial Depth	89.0 dg	86.8 dg	0.7
Facial Axis	91.0 dg	90.0 dg	0.3
Maxillary Depth	91.8 dg	90.0 dg	0.6
Mandibular Plane to FH	27.3 dg	25.8 dg	0.3
Mandibular Arc	23.2 dg	26.4 dg	-0.8

MIXED DENTITION, FEMALE
Dr. Training

RMO Case Number: 0000 0035 1
RMO Run date: 02/21/2003

X-Ray date: 08/12/2002 Age: 9.5
Birthdate: 01/24/1993 Sex: Female 1

Reference: G T N

===== 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	-0.3 C.D.	Probability of Lower Third Molar (based on space available)		
Vertical Description	MESOFACIAL	Impaction	Eruption	Eruption
			Questionable	Functional
Auxiliary Appliances				
Headgear	NOT INDICATED			
		38.%	50.%	12.%
Activator	NOT INDICATED			
Palate Separation	N/A - No Arch and Frontal data			
Convexity Objective	Reduce 0.0 mm			

Lower Arch Length Discrepancy (original arch) 1.0 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: 0.6 mm Fwd. Rt: 0.9 mm Fwd.	1.7 mm Increase	2.7 mm Excess
Buccal Expansion to Ideal Arch Form		0.0 mm Increase	2.7 mm Excess
Incisors & Convexity to Cephalometric Limit	1.7 mm	3.4 mm Increase	Not Reqd
Lower Molar Distal Movement	1.8 mm	3.6 mm Increase	Not Reqd

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

Movement of First Molar (non-ext.) Required for Class I	1.9 mm Mesial
Resulting Expected Space for 2nd & 3rd Molars at Maturity (non-ext.)	21.5 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	NON-EXTRACTION
Lower Arch	NON-EXTRACTION
Lower Incisor	Forward 0.6 mm
Buccal Expansion	Gain 0.0 mm
Lower Molar Movement	Forward 1.1 mm

Teeth Sizes:	L6	L5	L4	L3	L2	L1	R1	R2	R3	R4	R5	R6	TOTAL	SUM OF INCISOR	NORM
Lower Arch :	9.9	7.2	7.0	6.8	5.7	5.2	5.2	5.7	6.8	7.0	7.2	9.9	83.6	21.8 MM	22.1

MIXED DENTITION, FEMALE
Dr. Training

RMO Case Number: 0000 0035 1
RMO Run date: 02/21/2003

X-Ray date: 08/12/2002 Age: 9.5
Birthdate: 01/24/1993 Sex: Female 1

Reference: W R N

W O R K U P

R A T I O N A L E

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

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

Facial pattern: -0.3 CD - Mesofacial
Lower arch form: Normal

Mandibular Arch Length Analysis

Missing permanent teeth: R -----+----- L
|
|

- 1. Initial Conditions
 - A. Original Arch Length 0.5 mm shortage
 - B. Useable Leeway Space 1.5 mm
 - C. Total Initial Discrepancy(A+B) 1.0 mm excess

Lower arch length discrepancy (ALD) 0.5 mm SHORTAGE
Leeway space 1.5 mm ---
Maximum use of leeway space 1.5 mm
Total arch length discrepancy 1.0 mm EXCESS

- 2. Maximum Permissible Arch Length Increase(Within Doctor Limits)
Due To:
 - D. Lower Incisor Repositioning 5.1 mm increase
 - E. Buccal Expansion 0.0 mm
 - F. Lower Molar Distal Movement 2.0 mm increase
 - G. Total Possible Increase (D+E+F) 7.1 mm increase

===== COMPUTER DECISION =====
based on Dr. Training's individualized standards

UPPER ARCH: NON-EXTRACTION

Convexity change NONE

- 3. Resultant Arch Length Discrepancy 8.1 mm excess
Considering All Possible Arch Length Increases (C+G)
- 4. Resultant Computer Decision Non-Extraction
- 5. Work-Up Presented Is NON-EXTRACTION

LOWER ARCH: NON-EXTRACTION

Lower incisor FORWARD 0.6 mm
Buccal Expansion NONE
Extracted teeth
Lower molar FORWARD 1.1 mm
R -----+----- L
|
|

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

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

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

- 1. Convexity change 0.0 mm
- 2. Upper incisor tip movement for overbite/overjet ideal to lower 3.3 mm backward
- 3. First molar movement required 1.2 mm forward
- 4. First molar movement clinical limit 5.0 mm backward
- 5. Work-Up Presented Is NON-EXTRACTION

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

===== COMMENTS =====

Pentamorphic arch form: Normal
Arch length relapse: 1.5 mm

Lower third molar probabilities
(based on space available)

Impaction: 38 %
Marginal: 50 %
Functional: 12 %

MIXED DENTITION, FEMALE
0000 0035 1

F 9.5

SEQUENCES WORKSHEET
PHASE I TREATMENT

02/21/2003
NON-EXTRACTION

RMO®

ACTIVITY	UPPER ARCH DESCRIPTION	MONTHS	NOTES	ACTIVITY	LOWER ARCH DESCRIPTION	MONTHS	NOTES
	INTRUDE 1	0 1			ADVANCE INCISORS	0 1	
	RETRACT INCISORS	0 2				0 2	
		0 3			EXTRUDE 1	0 3	
		0 4				0 4	
		0 5				0 5	
		0 6				0 6	
	POST TX RECORDS	0 7			POST TX RECORDS	0 7	
		0 8				0 8	
		0 9				0 9	
		1 0				1 0	
		1 1				1 1	
		1 2				1 2	
		1 3				1 3	
		1 4				1 4	
		1 5				1 5	
		1 6				1 6	
		1 7				1 7	
		1 8				1 8	
		1 9				1 9	
		2 0				2 0	
		2 1				2 1	
		2 2				2 2	
		2 3				2 3	
		2 4				2 4	

MIXED DENTITION, FEMALE
0000 0035 1

F 9.5

SEQUENCES WORKSHEET
PHASE II TREATMENT

02/21/2003
NON-EXTRACTION



UPPER ARCH				LOWER ARCH			
ACTIVITY	DESCRIPTION	MONTHS	NOTES	ACTIVITY	DESCRIPTION	MONTHS	NOTES
	ALIGN/LEVEL BUCCAL SEGS	0			ALIGN/LEVEL BUCCAL SEGS	0	
		1				1	
		0				0	
	IDEAL ARCH	2			IDEAL ARCH	2	
		0				0	
		3				3	
	FINAL ARCH	4			FINAL ARCH	4	
		0				0	
		5				5	
	POST TX RECORDS	6			POST TX RECORDS	6	
		0				0	
		7				7	
		8				8	
		0				0	
		9				9	
		10				10	
		11				11	
		12				12	
		13				13	
		14				14	
		15				15	
		16				16	
		17				17	
		18				18	
		19				19	
		20				20	
		21				21	
		22				22	
		23				23	
		24				24	

0000 0035 1
MIXED DENTITION, FEMALE
F 9.5

LONG RANGE GROWTH FORECAST COMPARISON RMO®

NON-EXTRACTION

02/20/2003

WITHOUT TREATMENT

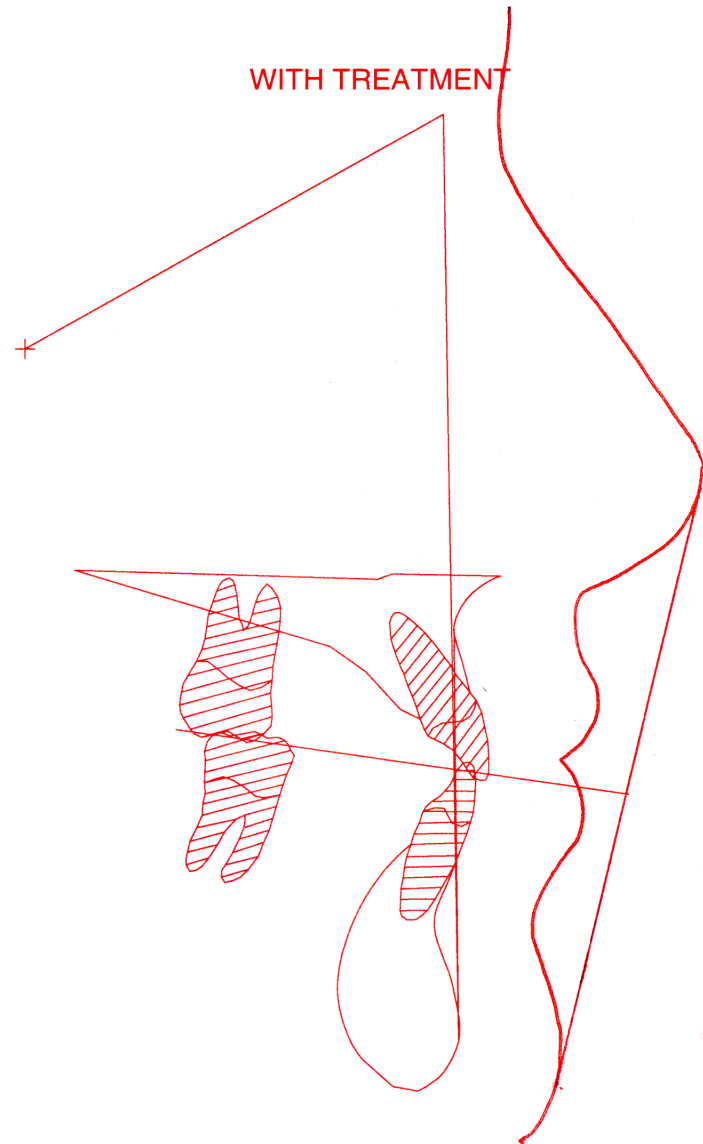


LOWER THIRD MOLAR PROBABILITIES
(BASED ON SPACE AVAILABLE)

IMPACTION: 39 %
MARGINAL: 50 %
FUNCTIONAL: 11 %

CURRENT HEIGHT: 57.0 IN
EXPECTED MATURE HEIGHT: 67.4 IN

WITH TREATMENT



LOWER THIRD MOLAR PROBABILITIES
(BASED ON SPACE AVAILABLE)

IMPACTION: 38 %
MARGINAL: 50 %
FUNCTIONAL: 12 %

ARCH LENGTH DECREASE POST TX
1.5 MM TOTAL

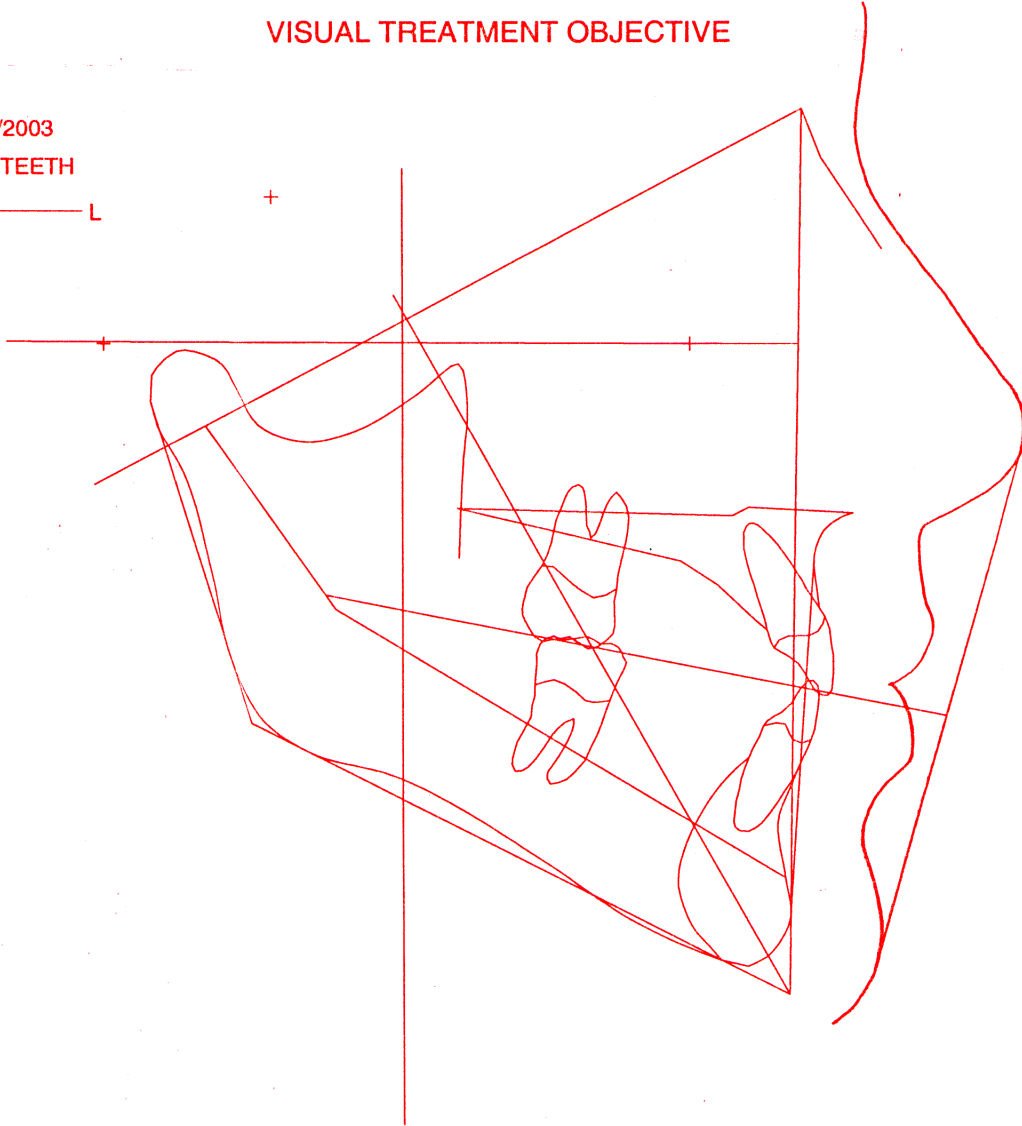
CASE: 0000 0035 1
 MIXED DENTITION, FEMALE
 Dr. TRAINING
 F (CA) Caucasian
 AGE: 9.5
 X: 08/12/2002 - R: 02/20/2003
 MISSING PERMANENT TEETH

NON-EXTRACTION VTO

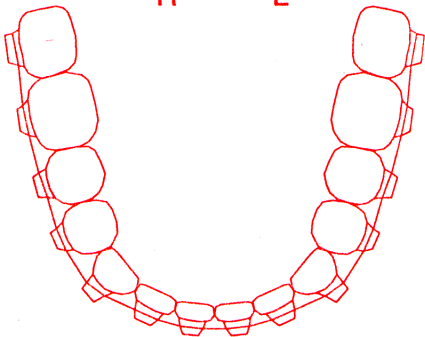
RMO®

VISUAL TREATMENT OBJECTIVE

R ————— L



SUGGEST
 NORMAL
 RMO PREFORMED
 PENTAMORPHIC ARCHWIRE
 R L



ESPECIALLY PREPARED FOR Dr. TRAINING

WORKUP PERFORMED

Upper: NON-EXTRACTION
 Lower: NON-EXTRACTION

PREDICTION PERIOD

11.1 months

GROWTH UNITS

11.1 months: 0.8

HEIGHT PREDICTION

Current height: 57.0 inches
 Mature height: 67.4 inches

3RD MOLAR PREDICTION

Impaction: 38 %
 Marginal: 50 %
 Functional: 12 %

COMMENTS

0000 0035 1
 MIXED DENTITION, FEMALE
 F 9.5 02/21/2003

NON-EXTRACTION TREATMENT DESIGN

RMO®

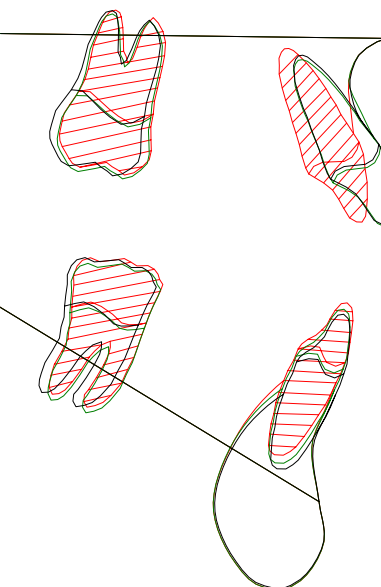
EXTRACT R L

MAXILLARY CHANGE

CHANGE IN MAXILLARY TEETH

PT. A MOVEMENT NONE 0.0 MM

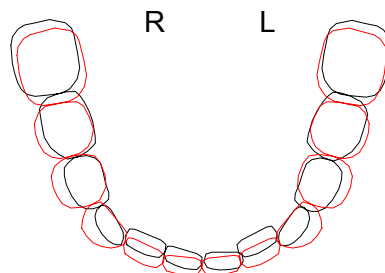
UPPER MOLAR CHANGE



CHANGE IN MANDIBULAR TEETH

LOWER INCISOR	FWD(LT)	0.6	MM
LOWER MOLAR	FWD	1.1	MM

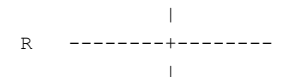
MANDIBULAR GROWTH



WORKUP PRESENTED

Upper arch: NON-EXTRACTION
 Lower arch: NON-EXTRACTION

MISSING PERMANENT TEETH



COMMENTS

— ORIGINAL
 — GROWTH W/O TREATMENT
 — TREATMENT OBJECTIVE

MIXED DENTITION, FEMALE
Dr. TrainingRMO Case Number: 0000 0035 1
RMO Run date: 02/21/2003X-Ray date: 08/12/2002
Birthdate: 01/24/1993Age: 9.5
Sex: Female 1

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	82.3 dg	82.0 dg	0.1
SNB	78.6 dg	80.0 dg	-0.4
ANB	3.7 dg	2.0 dg	0.6
SND	75.5 dg	76.0 dg	-0.1
A1 to NA	4.4 mm	4.0 mm	0.1
A1 to NA	26.3 dg	22.0 dg	0.5
B1 to NB	3.2 mm	4.0 mm	-0.3
B1 to NB	21.6 dg	25.0 dg	-0.5
A1 to B1	128.4 dg	131.0 dg	-0.3
OCC.PL/SN	20.7 dg	14.0 dg	1.5 *

0000 0035 1
MIXED DENTITION, FEMALE
F 9.5 02/21/2003

STEINER ANALYSIS

RMO®

