

CASE: 9791 0201 1

CASO, MUESTRA

I. M. THOROUGH

F (LA) Latin

AGE: 10.4

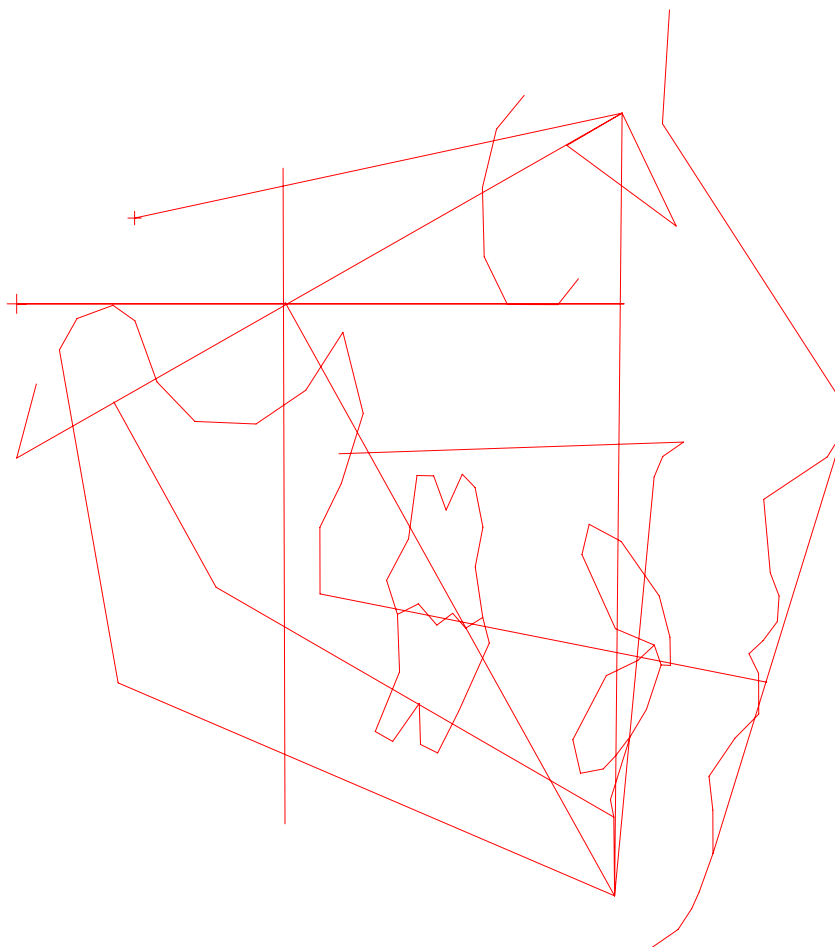
X: 06/17/2008 - R: 03/12/2010

MISSING PERMANENT TEETH

R ———— | ———— L

VISUAL NORMS

RMO®



CASO, MUESTRA
I. M. Thorough

RMO Case Number: 9791 0201 1
RMO Run date: 03/12/2010

X-Ray date: 06/17/2008 Age: 10.4
Birthdate: 01/28/1998 Sex: Female 6

Reference: C C D 1

CCD - ORTHODONTIC CONDITIONS

LATERAL BEFORE TREATMENT

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

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

01 Molar Relation	-0.4 mm	-3.0 mm	1.0 *
03 Canine Relation	0.6 mm	-2.0 mm	1.3 *
05 Incisor Overjet	4.9 mm	2.5 mm	1.0 *
07 Incisor Overbite	4.0 mm	2.5 mm	0.8
09 Mand Incisor Extrusion	2.6 mm	1.3 mm	0.7
#11 Interincisal Angle	114.2 dg	119.4 dg	-0.9

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

#18 A6 Molar Position to PTV	15.5 mm	13.4 mm	0.7
#20 B1 to A-Po Plane	4.0 mm	3.0 mm	0.4
22 A1 to A-Po Plane	9.2 mm	5.5 mm	1.7 *
#24 B1 Inclination to A-Po	26.5 dg	26.0 dg	0.1
26 A1 Inclination to A-Po	39.3 dg	34.6 dg	1.2 *
27 Occlusal Plane to Xi	1.4 mm	1.1 mm	0.1
28 Inclination of Occl Plane	22.4 dg	20.4 dg	0.5
54 B1 Inclination to FH	47.6 dg	65.0 dg	-3.5 ***

===== ESTHETICS =====

29 Lower Lip to Esthetic Plane	0.0 mm	-0.3 mm	0.2
30 Upper Lip Length	22.0 mm	23.9 mm	-0.9
31 Lip Embrasure to Occl Plane	-3.9 mm	-3.0 mm	-0.4
58 NasoLabial Angle	111.6 dg	112.0 dg	-0.1

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

62 N-S-Ba	127.9 dg	129.6 dg	-0.3
63 Ba-S-PNS	60.2 dg	63.0 dg	-1.1 *
85 Airway Percent	75.8 %	56.4 %	1.3
86 Linder-Aronson AD1	26.1 mm	23.0 mm	0.6
87 Linder-Aronson AD2	21.3 mm	18.4 mm	0.7
88 Distance PTV to Adenoid	13.9 mm	10.5 mm	0.8

CCD - SKELETAL CONDITIONS

LATERAL BEFORE TREATMENT

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

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

#13 Convexity	7.7 mm	6.0 mm	0.6
#15 Lower Facial Height	44.7 dg	47.0 dg	-0.6
84 Present Patient Height	NOT AVAILABLE		
91 Posterior face height	71.4 mm		
92 Anterior face height	108.3 mm		
93 Posterior/Anterior ratio	66.0 %		
94 Saddle Angle	124.0 dg	123.0 dg	0.3
96 Condylion-A point	84.1 mm	87.8 mm	-0.9
97 Condylion-Gnathion	102.9 mm	106.5 mm	-0.6
95 Max-Mand Differential	18.8 mm	22.1 mm	-1.2 *
98 Menton-ANS	61.7 mm	62.2 mm	-0.1

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

#32 Facial Depth	84.4 dg	88.6 dg	-1.3 *
#34 Facial Axis	85.9 dg	89.0 dg	-0.8
#36 Maxillary Depth	92.4 dg	93.5 dg	-0.4
37 Maxillary Height	58.1 dg	55.9 dg	0.7
38 Palatal Plane to FH	-3.8 dg	3.0 dg	-2.0 **
#39 Mandibular Plane to FH	26.8 dg	23.3 dg	0.6
77 Ba-N-A	67.1 dg	63.0 dg	1.4 *
76 S-N-A	85.5 dg	82.0 dg	1.1 *
78 S-N-B	77.7 dg	80.0 dg	-0.6
69 A-N-B Difference	7.8 dg	2.0 dg	2.2 **
75 Total Facial Height	61.4 dg	60.0 dg	0.5

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

40 Cranial Deflection	27.3 dg	29.5 dg	-0.7
42 Cranial Length Anterior	53.4 mm	52.1 mm	0.4
44 Ramus Height (CF-Go)	59.4 mm	53.5 mm	1.5 *
46 Ramus Xi Position	73.8 dg	77.0 dg	-1.1 *
48 Porion Location (Por to PTV)	-38.5 mm	-34.8 mm	-1.5 *
#50 Mandibular Arc	26.4 dg	29.9 dg	-0.9
51 Corpus Length	60.5 mm	59.9 mm	0.1

CASO, MUESTRA
I. M. Thorough

RMO Case Number: 9791 0201 1
RMO Run date: 03/12/2010

X-Ray date: 06/17/2008 Age: 10.4
Birthdate: 01/28/1998 Sex: Female 6

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: CASO, MUESTRA
Doctor name: I. M. THOROUGH
Age: 10.4
X-Ray date: 06/17/2008
RMO Case Number:
RMO Run date: 03/12/2010

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

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

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

No height prediction possible
Current height not known

===== 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 =====

Class II malocclusion 1

===== VERTICAL =====

===== TRANSVERSE =====

===== SYMMETRY =====

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

===== COMMENTS =====

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

CASE: 9791 0201 1

CASO, MUESTRA

I. M. THOROUGH

F (LA) Latin

AGE: 10.4

X: 06/17/2008 - R: 03/12/2010

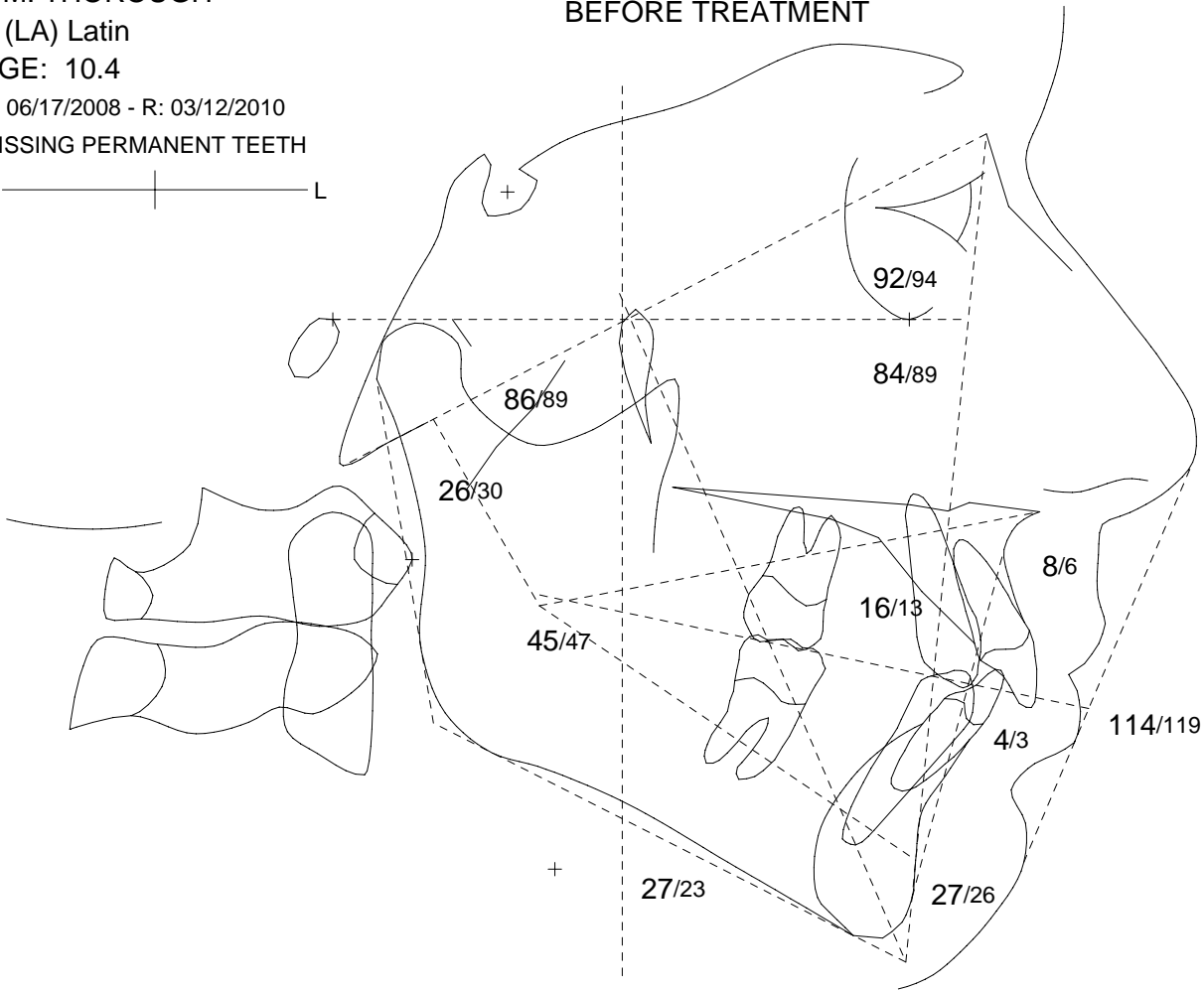
MISSING PERMANENT TEETH

R ——— | ——— L

TRACING

RMO®

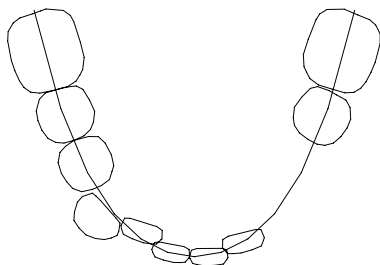
BEFORE TREATMENT



MEASURED VALUE/NORM

SIGNIFICANT CONSIDERATIONS			
CONDITION	REASON		
Class II malocclusion Adenoid blockage of the airway?	Probably not		
FACIAL PATTERN: MESOFACIAL			
# FACTORS	MEASURED VALUE	NORM	CLINICAL DEVIATION
Interincisal Angle	114.2 dg	119.4 dg	-0.9
Convexity	7.7 mm	6.0 mm	0.6
Lower Facial Height	44.7 dg	47.0 dg	-0.6
A6 Molar Position to PTV	15.5 mm	13.4 mm	0.7
B1 to A-Po Plane	4.0 mm	3.0 mm	0.4
B1 Inclination to A-Po	26.5 dg	26.0 dg	0.1
Facial Depth	84.4 dg	88.6 dg	-1.3 *
Facial Axis	85.9 dg	89.0 dg	-0.8
Maxillary Depth	92.4 dg	93.5 dg	-0.4
Mandibular Plane to FH	26.8 dg	23.3 dg	0.6
Mandibular Arc	26.4 dg	29.9 dg	-0.9

R L



SHORTAGE 1.7 MM
LEEWAY 0.0 MM

CASO, MUESTRA
I. M. Thorough

RMO Case Number: 9791 0201 1
RMO Run date: 03/12/2010

X-Ray date: 06/17/2008 Age: 10.4
Birthdate: 01/28/1998 Sex: Female 6

Reference: W R N

W O R K U P

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

Facial pattern: 0.0 CD - Mesofacial
Lower arch form: Tapered
Missing permanent teeth: R -----+----- L

Lower arch length discrepancy (ALD) 1.7 mm SHORTAGE
Leeway space 0.0 mm ---
Maximum use of leeway space 0.0 mm
Total arch length discrepancy 1.7 mm SHORTAGE

===== COMPUTER DECISION =====
based on I. M. Thorough's individualized standards

UPPER ARCH: NON-EXTRACTION

Convexity change REDUCE 0.4 mm

LOWER ARCH: NON-EXTRACTION

Lower incisor BACKWARD 0.1 mm
Buccal Expansion GAIN 0.6 mm
Lower molar BACKWARD 0.3 mm
Extracted teeth
R -----+----- L

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

Activator: NEUTRAL
Palate separation: N/A - No Arch and Frontal data
Headgear: CERVICAL
LIGHT FORCES

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

Pentamorphic arch form: Narrow tapered
Arch length relapse: 1.8 mm

Lower third molar probabilities
(based on space available)

Impaction: 50 %
Marginal: 45 %
Functional: 5 %

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 1.7 mm shortage
B. Useable Leeway Space 0.0 mm
C. Total Initial Discrepancy(A+B) 1.7 mm shortage

2. Maximum Permissible Arch Length Increase(Within Doctor Limits)
Due To:
D. Lower Incisor Repositioning 3.7 mm increase
E. Buccal Expansion 0.6 mm increase
F. Lower Molar Distal Movement 1.2 mm increase
G. Total Possible Increase (D+E+F) 5.5 mm increase

3. Resultant Arch Length Discrepancy 3.8 mm excess
Considering All Possible Arch Length Increases (C+G)

4. Resultant Computer Decision Non-Extraction

5. Work-Up Presented Is NON-EXTRACTION

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

1. Convexity change 0.4 mm reduce

2. Upper incisor tip movement for overbite/overjet ideal to lower 1.1 mm backward

3. First molar movement required 1.5 mm backward

4. First molar movement clinical limit 5.0 mm backward

5. Work-Up Presented Is NON-EXTRACTION

===== COMMENTS =====

UPPER ARCH				LOWER ARCH			
ACTIVITY	DESCRIPTION	MONTHS	NOTES	ACTIVITY	DESCRIPTION	MONTHS	NOTES
	DISTALIZE 6	0			ADVANCE INCISORS	0	
		1				1	
		2				2	
		3				3	
	CORRECT CONVEXITY INTRUDE 1 RETRACT 4 AND/OR 5	0			ALIGN/LEVEL BUCCAL SEGS	0	
		4				4	
		5				5	
		6				6	
	RETRACT 3	0			IDEAL ARCH	0	
		7				7	
		8				8	
		9				9	
		10				10	
	RETRACT INCISORS ALIGN/LEVEL BUCCAL SEGS	1				1	
		1				1	
		2				2	
		3				3	
	IDEAL ARCH	1				1	
		4				4	
		5				5	
		6				6	
	FINAL ARCH	1			FINAL ARCH	1	
		7				7	
		8				8	
		9				9	
		20				20	
		21				21	
		22				22	
		23				23	
		24				24	

PROGRESS
RECORDS

PROGRESS
RECORDS

POST TX
RECORDS

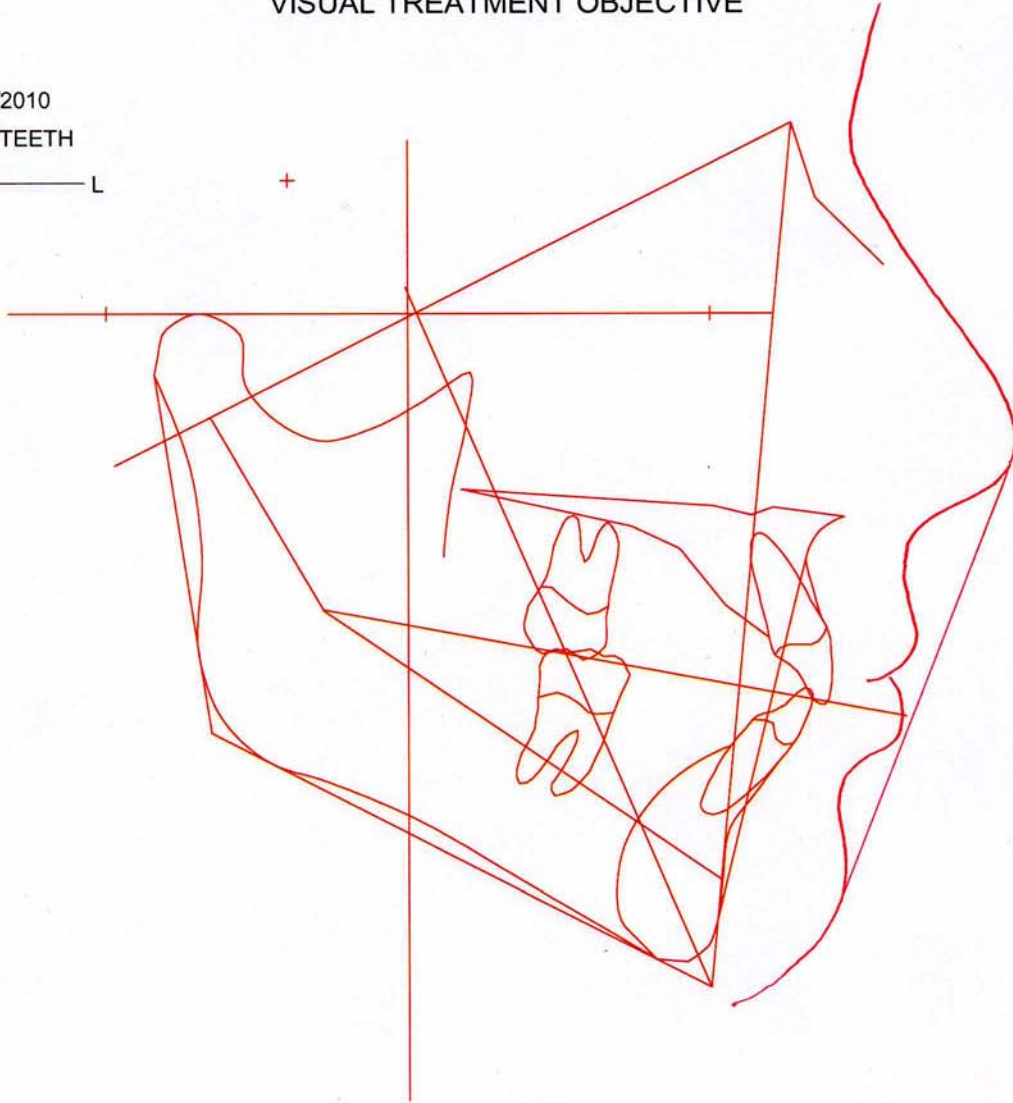
POST TX
RECORDS

CASE: 9791 0201 1
CASO, MUESTRA
I. M. THOROUGH
F (LA) Latin
AGE: 10.4
X: 06/17/2008 - R: 03/12/2010
MISSING PERMANENT TEETH

NON-EXTRACTION VTO

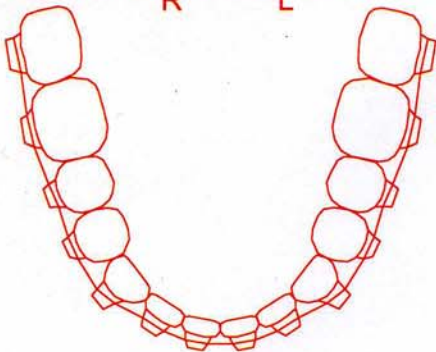
RMO®

VISUAL TREATMENT OBJECTIVE



R ——— | ——— L

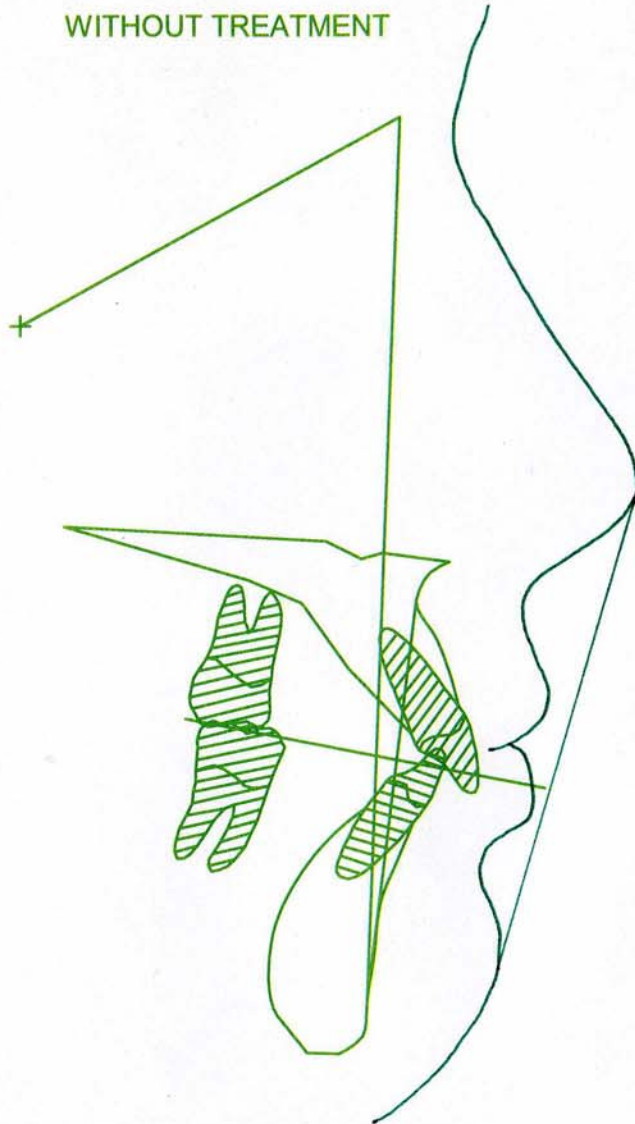
**SUGGEST
NARROW TAPERED
RMO PREFORMED
PENTAMORPHIC ARCHWIRE**
R L



ESPECIALLY PREPARED FOR I. M. THOROUGH	
WORKUP PERFORMED Upper: NON-EXTRACTION Lower: NON-EXTRACTION	
PREDICTION PERIOD 16.7 months	GROWTH UNITS 16.7 months: 1.3
HEIGHT PREDICTION N/A - Current height unknown	3RD MOLAR PREDICTION Impaction: 50 % Marginal: 45 % Functional: 5 %
COMMENTS	

03/12/2010

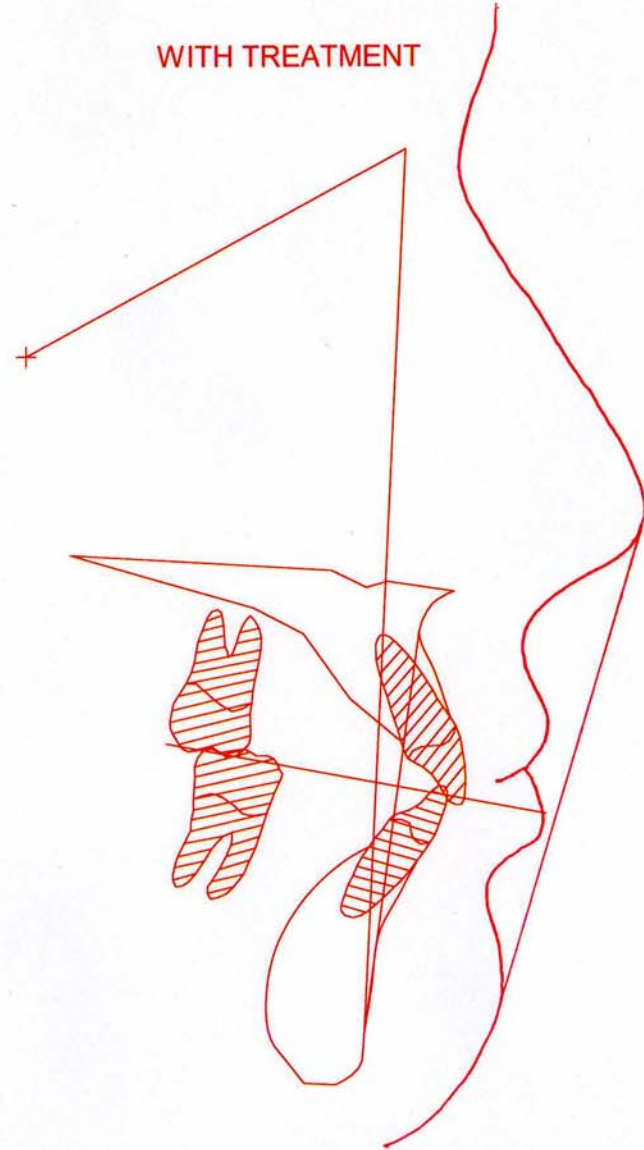
WITHOUT TREATMENT



LOWER THIRD MOLAR PROBABILITIES
(BASED ON SPACE AVAILABLE)

IMPACTION: 43 %
MARGINAL: 49 %
FUNCTIONAL: 8 %

WITH TREATMENT



LOWER THIRD MOLAR PROBABILITIES
(BASED ON SPACE AVAILABLE)

IMPACTION: 50 %
MARGINAL: 45 %
FUNCTIONAL: 5 %


ARCH LENGTH DECREASE POST TX
1.8 MM TOTAL

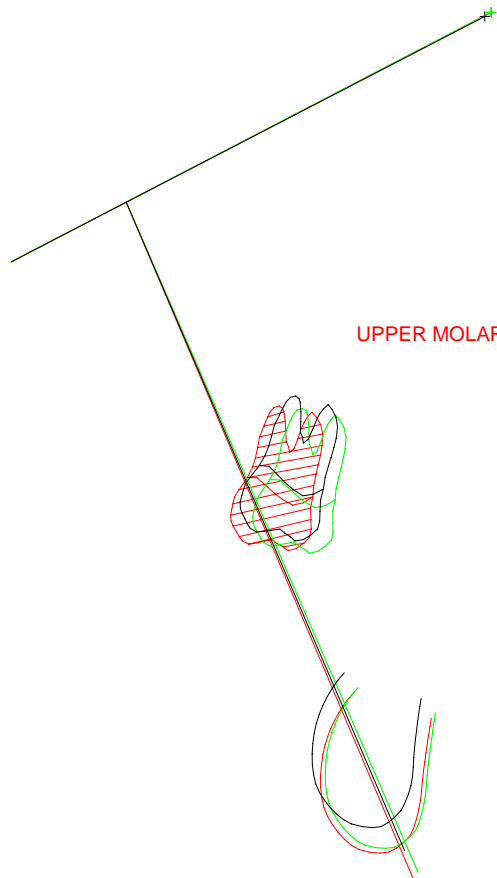
9791 0201 1
CASO, MUESTRA
F 10.4

NON-EXTRACTION TREATMENT DESIGN

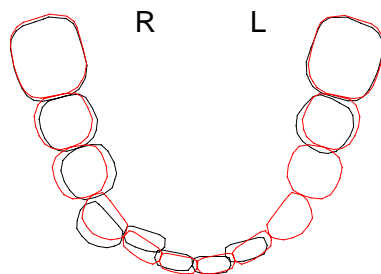
RMO®

03/12/2010

EXTRACT R  L

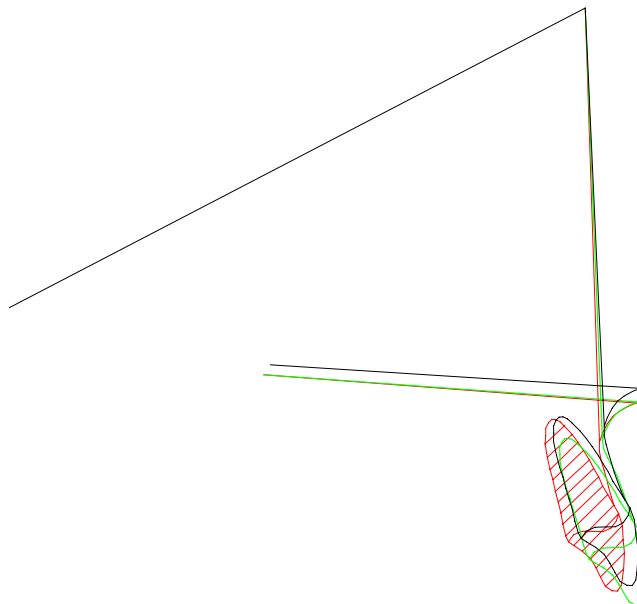


MANDIBULAR GROWTH

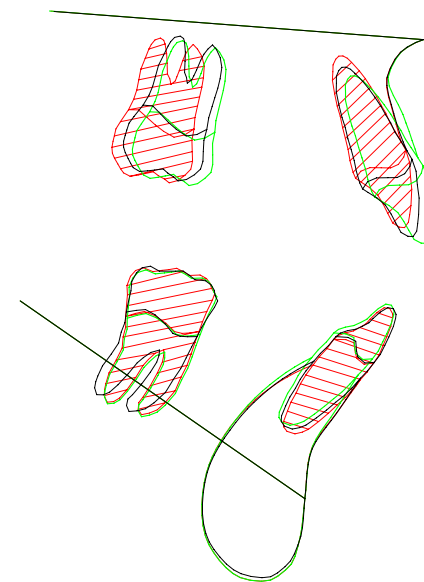


MAXILLARY CHANGE

PT. A MOVEMENT BACKWARD 0.4 MM



CHANGE IN MAXILLARY TEETH



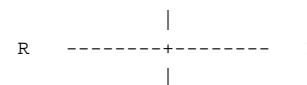
CHANGE IN MANDIBULAR TEETH

LOWER INCISOR	BWD(LT)	0.1	MM
LOWER MOLAR	BWD	0.3	MM

WORKUP PRESENTED

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

MISSING PERMANENT TEETH



COMMENTS

— ORIGINAL
— GROWTH W/O TREATMENT
— TREATMENT OBJECTIVE

CASO, MUESTRA
I. M. ThoroughRMO Case Number: 9791 0201 1
RMO Run date: 03/12/2010X-Ray date: 06/17/2008
Birthdate: 01/28/1998Age: 10.4
Sex: Female 6

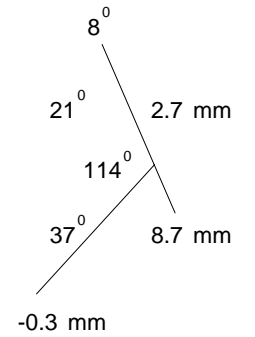
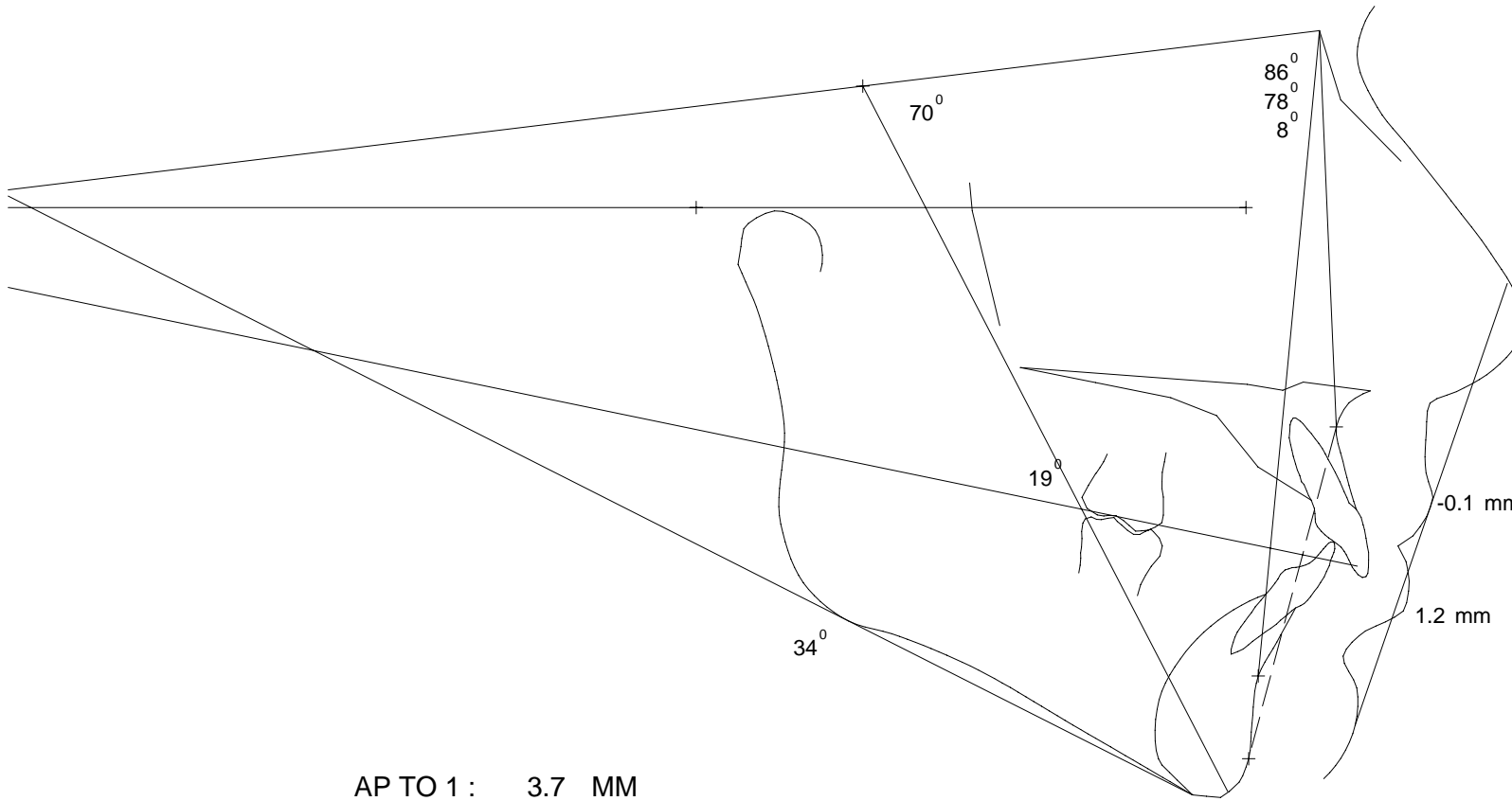
Reference: S A

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	85.5 dg	82.0 dg	1.1 *
SNB	77.7 dg	80.0 dg	-0.6
ANB	7.8 dg	2.0 dg	2.2 **
SND	73.7 dg	76.0 dg	-0.6
A1 to NA	2.7 mm	4.0 mm	-0.4
A1 to NA	21.0 dg	22.0 dg	-0.1
B1 to NB	8.7 mm	4.0 mm	2.0 **
B1 to NB	37.0 dg	25.0 dg	1.7 *
A1 to B1	114.2 dg	131.0 dg	-1.7 *
OCC.PL/SN	18.6 dg	14.0 dg	1.0 *

STEINER ANALYSIS



AP TO 1 : 3.7 MM
WITS : 3.6 MM

