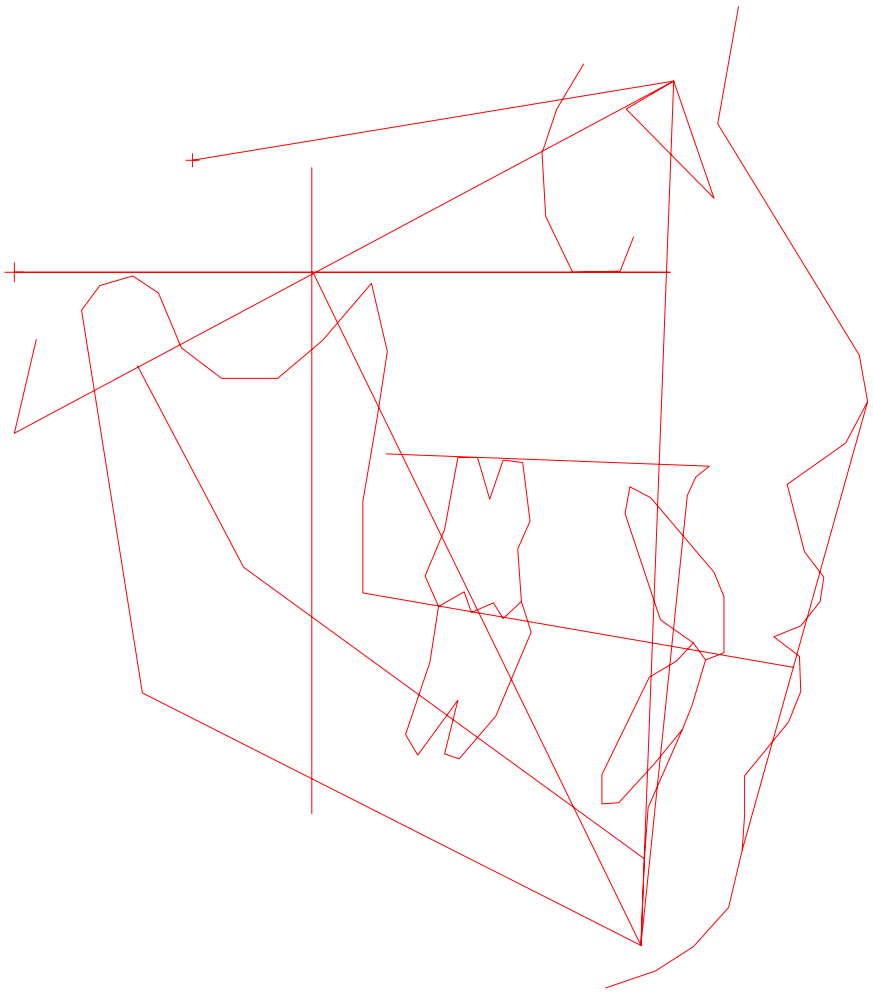
CASE: 0000 0037 1
CHINESE SAMPLE
Dr. TRAINING
F (CH) Chinese
AGE: 12.4
X: 09/30/2001 - R: 02/21/2003
MISSING PERMANENT TEETH

R L

VISUAL NORMS

RMO®



RMO Diagnostic Services
RMO, Inc.
(800)458-8884 Post Office Box 7955
(818)704-8198 Canoga Park, CA 91303-7955

CHINESE SAMPLE RMO Case Number: 0000 0037 1 X-Ray date: 09/30/2001 Age: 12.4 Reference: C C D 1
Dr. Training RMO Run date: 02/21/2003 Birthdate: 05/01/1989 Sex: Female 4

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

# - Appears on tracing	FACTOR	MEASURED VALUE	CLINICAL NORM	CLINICAL DEVIATIONS FROM	NORM
	DENTAL RELATIONS				
01	Molar Relation	-2.2 mm	-3.0 mm	0.3	
03	Canine Relation	-1.7 mm	-2.0 mm	0.1	
05	Incisor Overjet	3.0 mm	2.5 mm	0.2	
07	Incisor Overbite	1.3 mm	2.5 mm	-0.6	
09	Mand Incisor Extrusion	3.1 mm	1.3 mm	0.9	
#11	Interincisal Angle	110.0 dg	121.4 dg	-1.9	*
	DENTAL TO SKELETON				
#18	A6 Molar Position to PTV	15.4 mm	15.4 mm	0.0	
#20	B1 to A-Po Plane	7.6 mm	3.0 mm	2.0	**
22	A1 to A-Po Plane	10.5 mm	5.5 mm	2.3	**
#24	B1 Inclination to A-Po	29.9 dg	23.0 dg	1.7	*
26	A1 Inclination to A-Po	40.1 dg	35.6 dg	1.1	*
27	Occlusal Plane to Xi	1.5 mm	-0.8 mm	0.8	
28	Inclination of Occl Plane	21.5 dg	25.2 dg	-0.9	
54	B1 Inclination to FH	53.4 dg	65.0 dg	-2.3	**
	ESTHETICS				
29	Lower Lip to Esthetic Plane	4.6 mm	1.8 mm	1.4	*
30	Upper Lip Length	29.0 mm	25.1 mm	1.9	*
31	Lip Embrasure to Occl Plane	-4.3 mm	-3.0 mm	-0.7	
58	NasoLabial Angle	77.2 dg	110.0 dg	-6.6	***
	NASOPHARYNGEAL AIRWAY				
62	N-S-Ba	133.2 dg	129.6 dg	0.7	
63	Ba-S-PNS	57.6 dg	63.0 dg	-2.2	**
85	Airway Percent	56.2 %	59.0 %	-0.2	
86	Linder-Aronson AD1	20.9 mm	24.3 mm	-0.6	
87	Linder-Aronson AD2	18.1 mm	19.8 mm	-0.4	
88	Distance PTV to Adenoid	11.5 mm	12.0 mm	-0.1	

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

LATERAL BEFORE TREATMENT

# - Appears on tracing	FACTOR	MEASURED VALUE	CLINICAL NORM	CLINICAL DEVIATIONS FROM	NORM
	SKELETAL RELATIONS				
#13	Convexity	3.4 mm	5.2 mm	-0.6	
#15	Lower Facial Height	47.7 dg	47.6 dg	0.0	
84	Present Patient Height	59.0 in	60.5 in		
91	Posterior face height	76.5 mm			
92	Anterior face height	118.7 mm			
93	Posterior/Anterior ratio	64.5 %			
94	Saddle Angle	128.5 dg	123.0 dg	1.8	*
96	Condylion-A point	85.0 mm	87.7 mm	-0.6	
97	Condylion-Gnathion	110.8 mm	111.2 mm	-0.1	
95	Max-Mand Differential	25.7 mm	24.1 mm	0.5	
98	Menton-ANS	67.6 mm	64.0 mm	0.8	
	JAW TO CRANIUM				
#32	Facial Depth	87.4 dg	87.6 dg	-0.1	
#34	Facial Axis	86.7 dg	88.0 dg	-0.3	
#36	Maxillary Depth	90.7 dg	92.0 dg	-0.4	
37	Maxillary Height	60.5 dg	59.3 dg	0.4	
38	Palatal Plane to FH	0.8 dg	-1.2 dg	0.6	
#39	Mandibular Plane to FH	26.7 dg	25.0 dg	0.3	
77	Ba-N-A	66.4 dg	63.0 dg	1.1	*
76	S-N-A	80.4 dg	82.0 dg	-0.5	
78	S-N-B	77.8 dg	80.0 dg	-0.6	
69	A-N-B Difference	2.6 dg	2.0 dg	0.2	
75	Total Facial Height	60.7 dg	60.0 dg	0.2	
	INTERNAL STRUCTURE				
40	Cranial Deflection	28.5 dg	28.5 dg	0.0	
42	Cranial Length Anterior	57.2 mm	55.2 mm	0.6	
44	Ramus Height (CF-Go)	61.3 mm	59.4 mm	0.5	
46	Ramus Xi Position	74.8 dg	77.2 dg	-0.8	
48	Porion Location (Por to PTV)	-38.7 mm	-40.4 mm	0.7	
#50	Mandibular Arc	29.5 dg	27.0 dg	0.6	
51	Corpus Length	67.7 mm	66.1 mm	0.4	

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CHINESE SAMPLE RMO Case Number: 0000 0037 1 X-Ray date: 09/30/2001 Age: 12.4 Reference: I N F O
Dr. Training RMO Run date: 02/21/2003 Birthdate: 05/01/1989 Sex: Female 4

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

NAME

Patient name: CHINESE SAMPLE
Doctor name: TRAINING
Age: 12.4
X-Ray date: 09/30/2001
RMO Case Number:
RMO Run date: 02/21/2003

MISSING PERMANENT TEETH

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

HEIGHT PREDICTION

Assumed skeletal age: 12.4
Current height: 59.0 inches
Amount of adult growth achieved: 93.8 %
Expected adult height: 62.9 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

Bimaxillary Protrusion	11,24

VERTICAL

TRANSVERSE

SYMMETRY

SPECIAL CONSIDERATIONS

COMMENTS

Lat lt 6's used for measurement
No analysis of frontal x-ray. Upper and lower arch expansion decisions based on available data only.

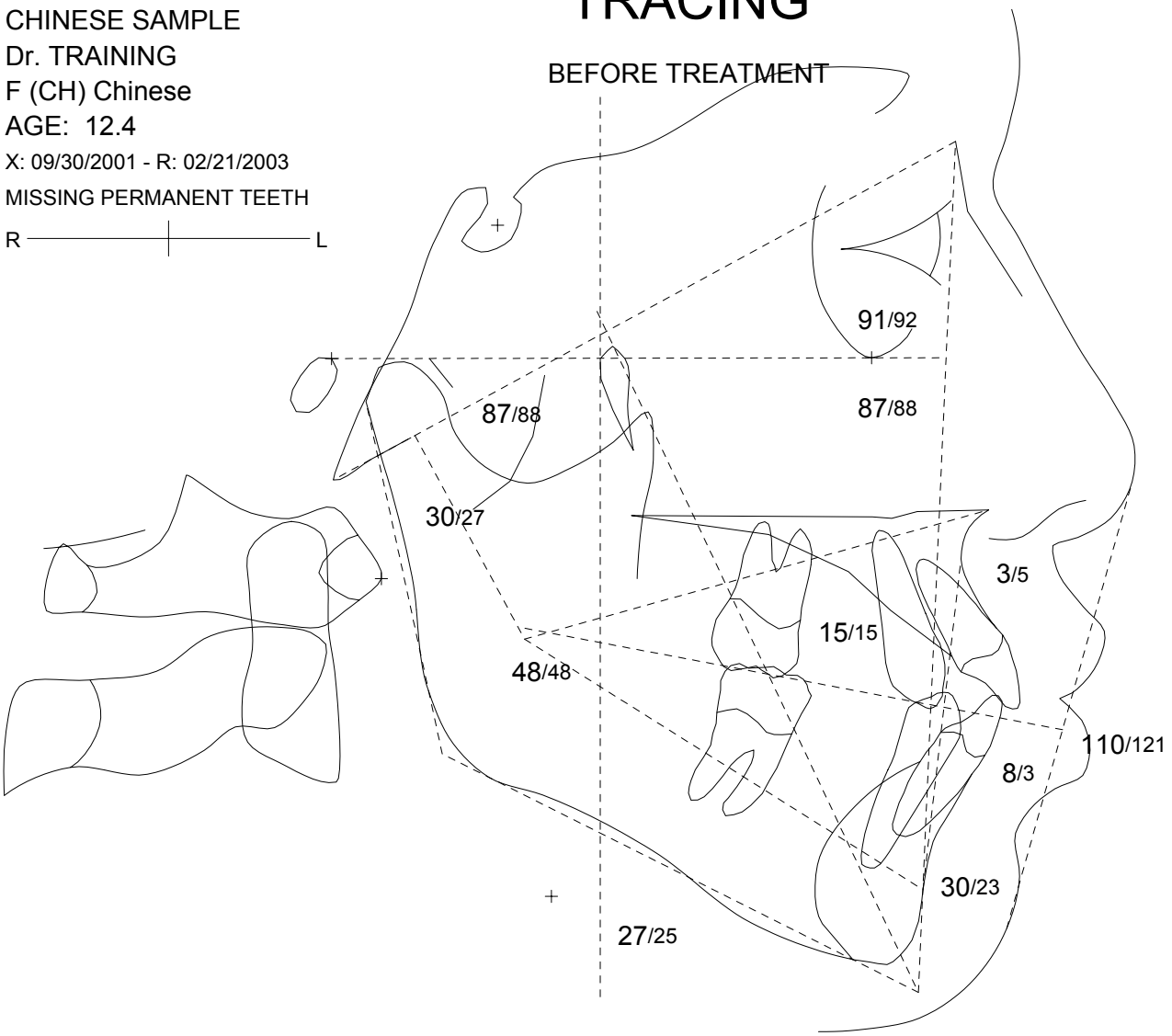
CASE: 0000 0037 1
CHINESE SAMPLE
Dr. TRAINING
F (CH) Chinese
AGE: 12.4
X: 09/30/2001 - R: 02/21/2003
MISSING PERMANENT TEETH

R L

TRACING

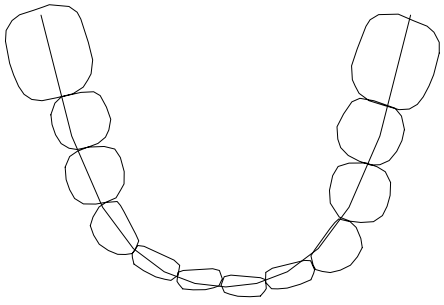
RMO®

BEFORE TREATMENT



MEASURED VALUE/NORM

R L



SHORTAGE 2.0 MM
LEEWAY 0.0 MM

SIGNIFICANT CONSIDERATIONS	
CONDITION	REASON
Bimaxillary Protrusion	
Adenoid blockage of the airway?	Probably not

FACIAL PATTERN: MESOFACIAL			
# FACTORS	MEASURED VALUE	NORM	CLINICAL DEVIATION
Interincisal Angle	110.0 dg	121.4 dg	-1.9 *
Convexity	3.4 mm	5.2 mm	-0.6
Lower Facial Height	47.7 dg	47.6 dg	0.0
A6 Molar Position to PTV	15.4 mm	15.4 mm	0.0
B1 to A-Po Plane	7.6 mm	3.0 mm	2.0 **
B1 Inclination to A-Po	29.9 dg	23.0 dg	1.7 *
Facial Depth	87.4 dg	87.6 dg	-0.1
Facial Axis	86.7 dg	88.0 dg	-0.3
Maxillary Depth	90.7 dg	92.0 dg	-0.4
Mandibular Plane to FH	26.7 dg	25.0 dg	0.3
Mandibular Arc	29.5 dg	27.0 dg	0.6

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CHINESE SAMPLE — RMO Case Number: 0000 0037 1 — X-Ray date: 09/30/2001 — Age: 12.4 — Reference: G T E
Dr. Training — RMO Run date: 02/21/2003 — Birthdate: 05/01/1989 — Sex: Female 4

========== 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	0.1 C.D.
Vertical Description	MESOFACIAL
Auxiliary Appliances	
Headgear	NOT INDICATED
Activator	NEUTRAL
Palate Separation	N/A - No Arch and Frontal data
Convexity Objective	Reduce 0.0 mm

Probability of Lower Third Molar (based on space available)

Impaction	Eruption Questionable Function	Eruption Functional
52.%	46.%	2.%

Lower Arch Length Discrepancy (original arch) 2.0 mm Shortage
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: 4.5 mm Bwd. Rt: 3.6 mm Bwd.	8.0 mm Decrease	10.0 mm Shortage
Buccal Expansion to Ideal Arch Form		0.0 mm Increase	10.0 mm Shortage
Incisors & Convexity to Cephalometric Limit	1.8 mm Fwd.	3.6 mm Increase	6.4 mm Shortage
Lower Molar Distal Movement	0.6 mm	1.2 mm Increase	5.2 mm Shortage

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

Movement of First Molar (non-ext.) Required for Class I	4.0 mm Mesial
Resulting Expected Space for 2nd & 3rd Molars at Maturity (non-ext.)	19.1 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	EXTRACTION
Lower Arch	EXTRACTION
Lower Incisor	Backward 6.8 mm
Buccal Expansion	Gain 0.0 mm
Lower Molar Movement	Forward 0.0 mm

Teeth Sizes:	L6	L5	L4	L3	L2	L1	R1	R2	R3	R4	R5	R6	TOTAL	SUM OF INCISOR	NORM
Lower Arch :	12.1	8.2	8.0	7.8	6.7	6.0	6.0	6.7	7.6	7.7	7.3	12.2	96.3	25.4 MM	22.7

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CHINESE SAMPLE — RMO Case Number: 0000 0037 1 — X-Ray date: 09/30/2001 — Age: 12.4 — Reference: W R E
Dr. Training — RMO Run date: 02/21/2003 — Birthdate: 05/01/1989 — Sex: Female 4

W O R K U P

ORIGINAL CONDITION

Facial pattern: 0.1 CD - Mesofacial
Lower arch form: Ovoid

Missing permanent teeth:

	R	L

Lower arch length discrepancy (ALD) 2.0 mm SHORTAGE
Leeway space 0.0 mm ---
Maximum use of leeway space 0.0 mm
Total arch length discrepancy 2.0 mm SHORTAGE

COMPUTER DECISION

based on Dr. Training's individualized standards

UPPER ARCH: EXTRACTION

Convexity change NONE

LOWER ARCH: EXTRACTION

Lower incisor BACKWARD 6.8 mm
Buccal Expansion NONE
Lower molar FORWARD 0.0 mm

Extracted teeth

	R	L
	4	4

AUXILIARY APPLIANCES

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

POST TREATMENT

Pentamorphic arch form: Ovoid
Arch length relapse: 0.5 mm

Lower third molar probabilities
(based on space available)

Impaction: 52 %
Marginal: 46 %
Functional: 2 %

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 2.0 mm shortage
   - B. Useable Leeway Space 0.0 mm
   - C. Total Initial Discrepancy(A+B) 2.0 mm shortage
2. Maximum Permissible Arch Length Increase(Within Doctor Limits) Due To:
   - D. Lower Incisor Repositioning 4.4 mm decrease
   - E. Buccal Expansion 0.0 mm
   - F. Lower Molar Distal Movement 1.2 mm increase
   - G. Total Possible Increase (D+E+F) 3.2 mm decrease
3. Resultant Arch Length Discrepancy Considering All Possible Arch Length Increases (C+G) 5.2 mm shortage
4. Resultant Computer Decision Extraction
5. Work-Up Presented Is EXTRACTION

REASONS FOR UPPER ARCH DECISION

1. Convexity change 0.0 mm
2. Upper incisor tip movement for overbite/overjet ideal to lower 3.9 mm backward
3. First molar movement required 3.1 mm forward
4. First molar movement clinical limit 5.0 mm backward
5. Work-Up Presented Is EXTRACTION

COMMENTS

Lat lt 6's used for measurement

CHINESE SAMPLE
0000 0037 1

F 12.4

SEQUENCES WORKSHEET

02/21/2003
EXTRACTION

RMO®

UPPER ARCH

ACTIVITY	DESCRIPTION	MONTHS	NOTES
	EXTRACT	01	
	INTRUDE 1	02	
		03	
		04	
	RETRACT 3	05	
PROGRESS RECORDS		06	
		07	
		08	
		09	
	CLOSE SPACE 6-5-3 RETRACT INCISORS ALIGN/LEVEL BUCCAL SEGS	10	
		11	
PROGRESS RECORDS		12	
		13	
		14	
	IDEAL ARCH	15	
		16	
		17	
PROGRESS RECORDS		18	
		19	
		20	
		21	
		22	
		23	
		24	

LOWER ARCH

ACTIVITY	DESCRIPTION	MONTHS	NOTES
	EXTRACT	01	
	RETRACT 3	02	
		03	
		04	
		05	
PROGRESS RECORDS		06	
		07	
		08	
		09	
	EXTRUDE 1 RETRACT INCISORS	10	
		11	
PROGRESS RECORDS		12	
		13	
		14	
		15	
		16	
		17	
PROGRESS RECORDS	INTRUDE 3	18	
	ADVANCE 6	19	
		20	
		21	
		22	
		23	
	ALIGN/LEVEL BUCCAL SEGS CLOSE SPACE 6-5-3	24	

CHINESE SAMPLE F 12.4 SEQUENCES WORKSHEET 02/21/2003
0000 0037 1 EXTRACTION

RMO®

UPPER ARCH

ACTIVITY	DESCRIPTION	MONTHS	NOTES
	IDEAL ARCH	25	
		26	
		27	
		28	
		29	
	FINAL ARCH	30	
POST TX RECORDS		31	
		32	
		33	
		34	
		35	
		36	
		37	
		38	
		39	
		40	
		41	
		42	
		43	
		44	
		45	
		46	
		47	
		48	

LOWER ARCH

ACTIVITY	DESCRIPTION	MONTHS	NOTES
	ALIGN/LEVEL BUCCAL SEGS CLOSE SPACE 6-5-3	25	
		26	
	IDEAL ARCH	27	
		28	
		29	
	FINAL ARCH	30	
POST TX RECORDS		31	
		32	
		33	
		34	
		35	
		36	
		37	
		38	
		39	
		40	
		41	
		42	
		43	
		44	
		45	
		46	
		47	
		48	

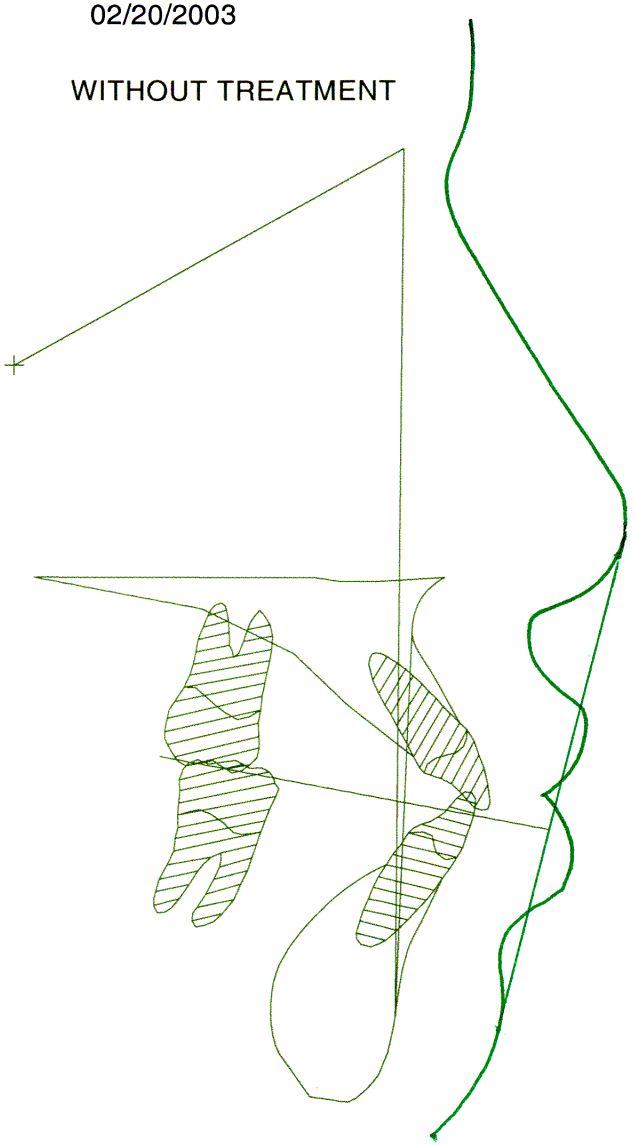
0000 0037 1
CHINESE SAMPLE
F 12.4

LONG RANGE GROWTH FORECAST COMPARISON RMO®

EXTRACTION

02/20/2003

WITHOUT TREATMENT

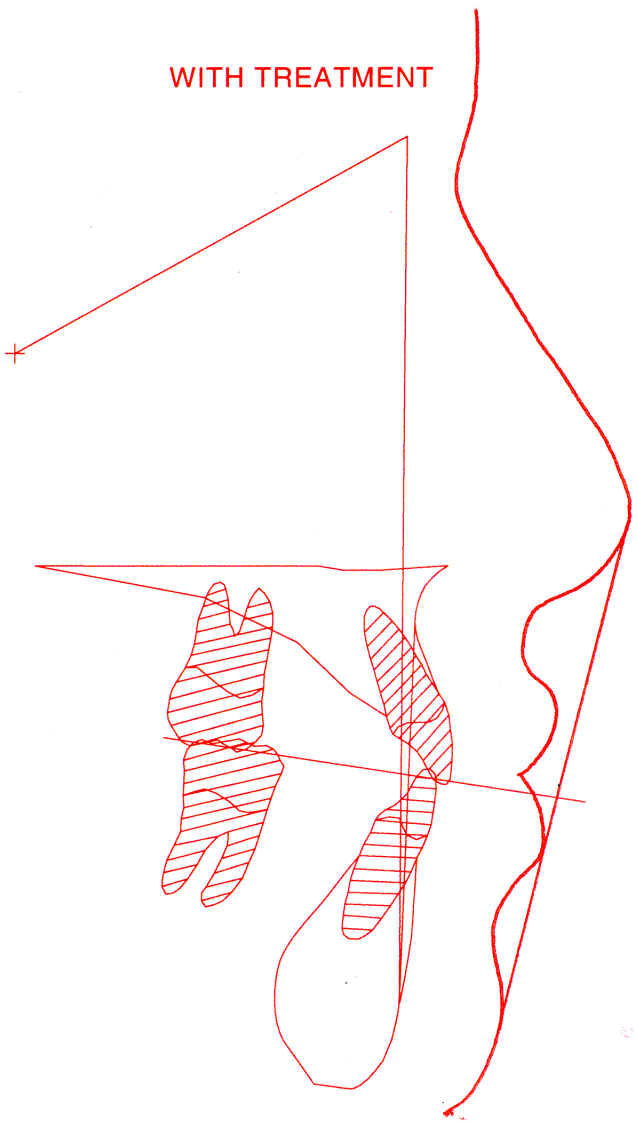


LOWER THIRD MOLAR PROBABILITIES
(BASED ON SPACE AVAILABLE)

IMPACTION: 51 %
MARGINAL: 47 %
FUNCTIONAL: 2 %

CURRENT HEIGHT: 59.0 IN
EXPECTED MATURE HEIGHT: 62.9 IN

WITH TREATMENT



LOWER THIRD MOLAR PROBABILITIES
(BASED ON SPACE AVAILABLE)

IMPACTION: 52 %
MARGINAL: 46 %
FUNCTIONAL: 2 %

ARCH LENGTH DECREASE POST TX
0.5 MM TOTAL

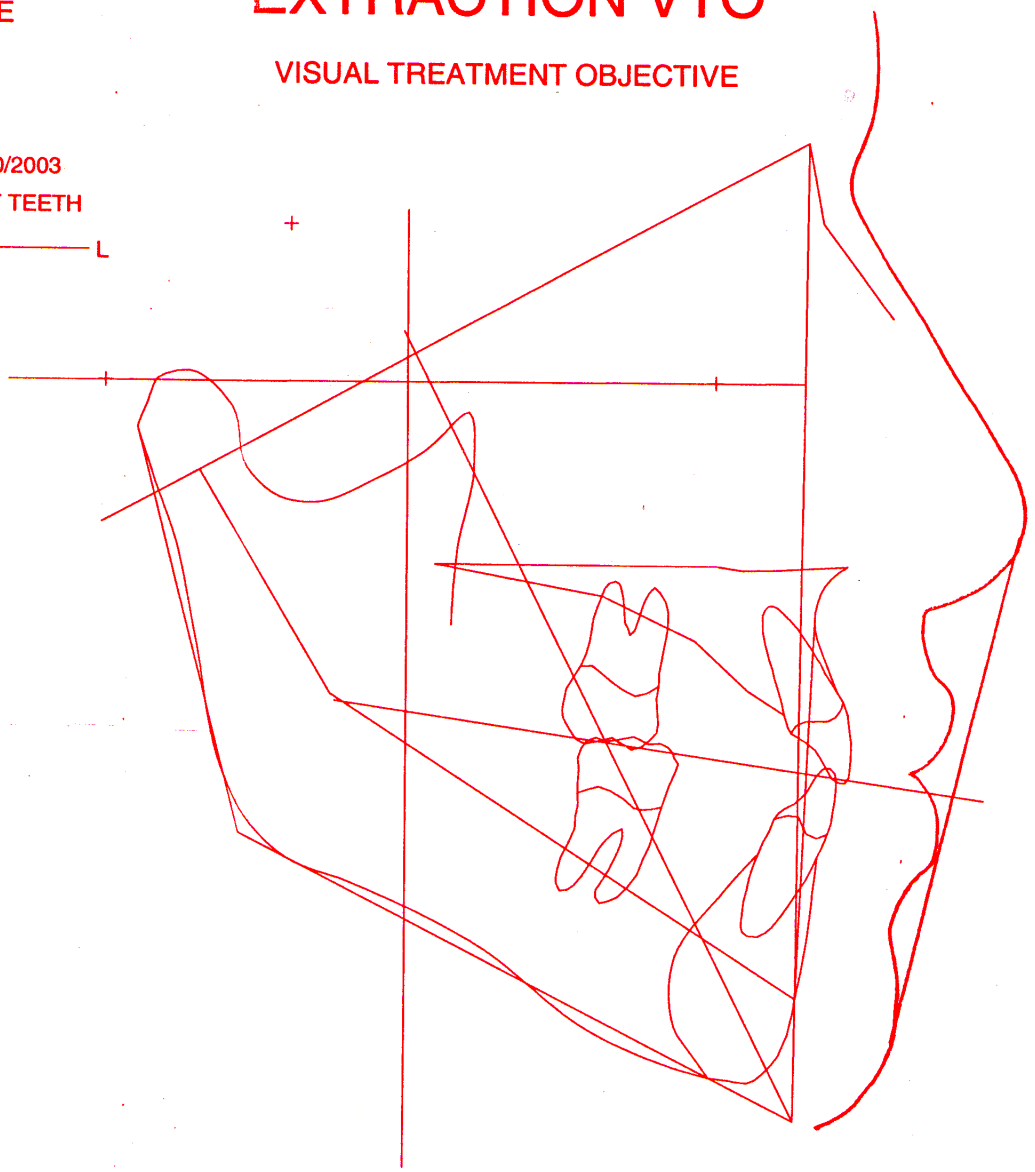
CASE: 0000 0037 1
CHINESE SAMPLE
Dr. TRAINING
F (CH) Chinese
AGE: 12.4
X: 09/30/2001 - R: 02/20/2003
MISSING PERMANENT TEETH

R — L

EXTRACTION VTO

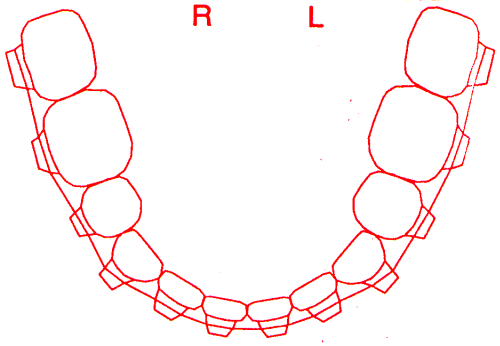
RMO®

VISUAL TREATMENT OBJECTIVE



SUGGEST
OVOID
RMO PREFORMED
PENTAMORPHIC ARCHWIRE

R L



ESPECIALLY PREPARED FOR Dr. TRAINING

WORKUP PERFORMED
Upper: EXTRACTION
Lower: EXTRACTION

EXTRACTED TEETH
R 4 4 | 4 4 L

PREDICTION PERIOD
30.4 months

GROWTH UNITS
30.4 months: 2.8

HEIGHT PREDICTION
Current height: 59.0 inches
Mature height: 62.9 inches

3RD MOLAR PREDICTION
Impaction: 52 %
Marginal: 46 %
Functional: 2 %

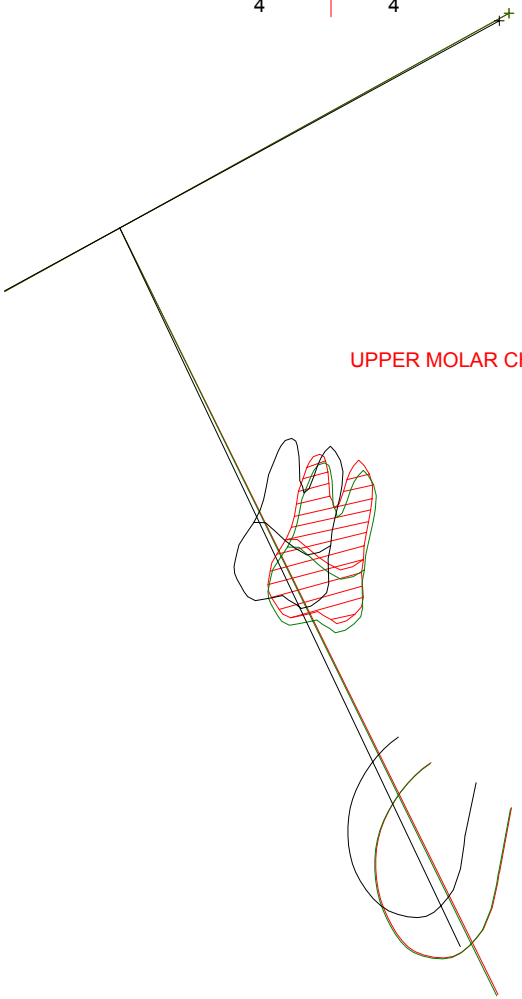
COMMENTS
Lat lt 6's used for measurement

EXTRACTION TREATMENT DESIGN

RMO®

0000 0037 1
CHINESE SAMPLE
F 12.4 02/21/2003

EXTRACT R 4 4 / 4 4 L

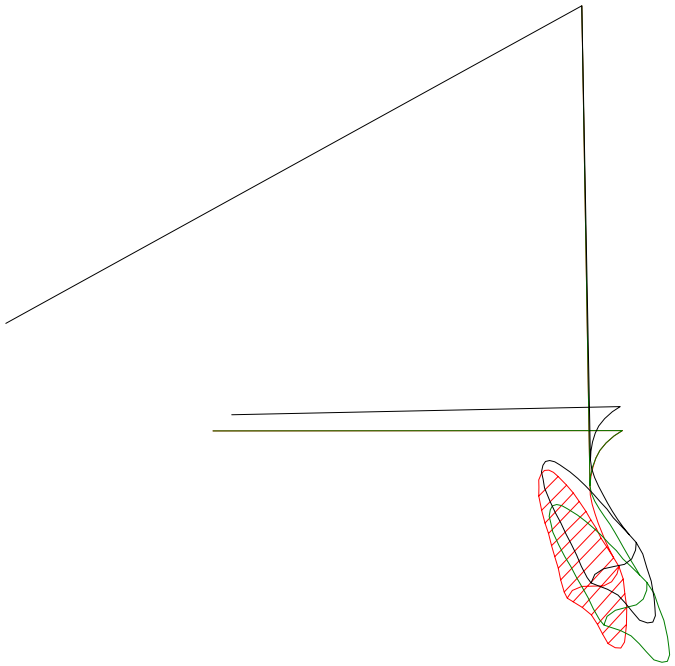


UPPER MOLAR CHANGE

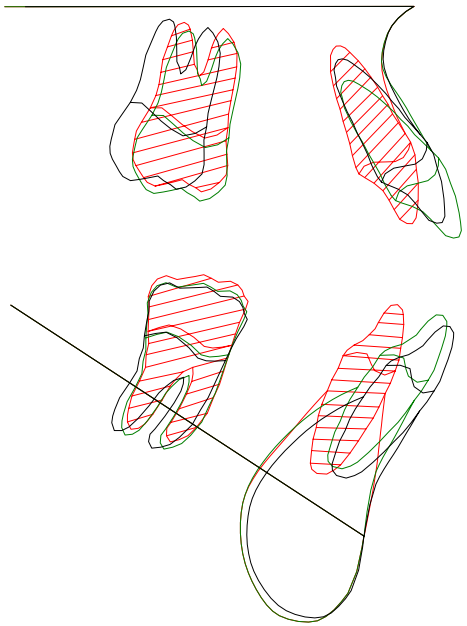
MANDIBULAR GROWTH

MAXILLARY CHANGE

PT. A MOVEMENT NONE 0.0 MM

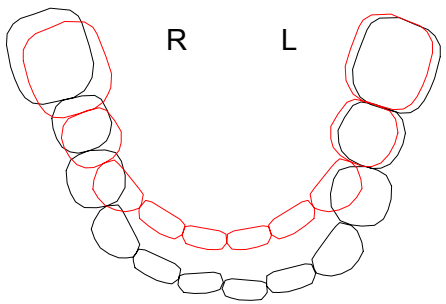


CHANGE IN MAXILLARY TEETH



CHANGE IN MANDIBULAR TEETH

LOWER INCISOR	BWD(LT)	6.8	MM
LOWER MOLAR	FWD	0.0	MM



ORIGINAL
GROWTH W/O TREATMENT
TREATMENT OBJECTIVE

WORKUP PRESENTED

Upper arch: EXTRACTION
Lower arch: EXTRACTION

MISSING PERMANENT TEETH

R L

COMMENTS

Lat lt 6's used for measurement

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CHINESE SAMPLE RMO Case Number: 0000 0037 1 X-Ray date: 09/30/2001 Age: 12.4 Reference: S A
Dr. Training RMO Run date: 02/21/2003 Birthdate: 05/01/1989 Sex: Female 4

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

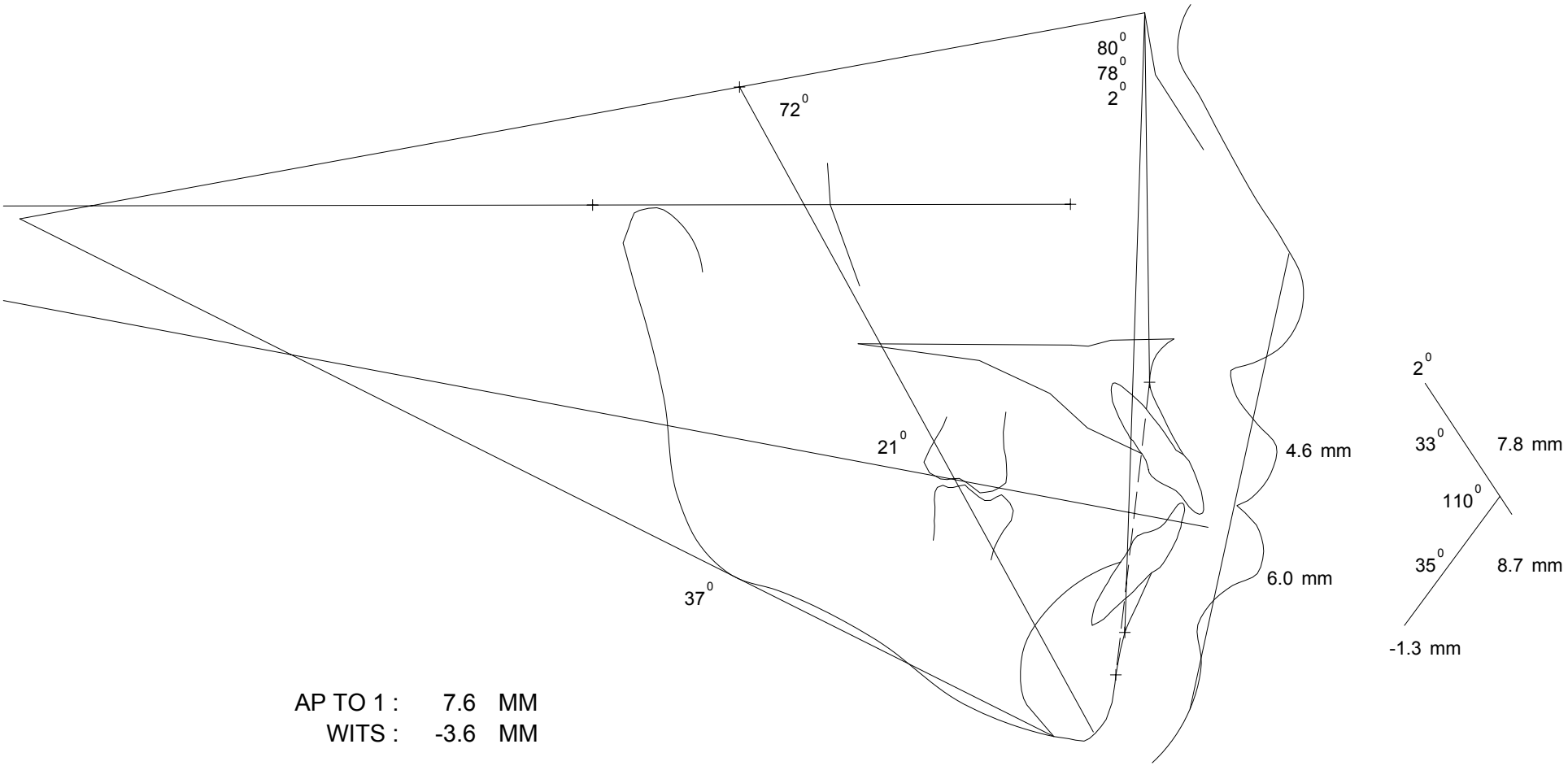
========== BEFORE TREATMENT ==========

Factor	Measured Value	Clinical Norm	Clinical Deviations From Norm	
SNA	80.4 dg	82.0 dg	-0.5	
SNB	77.8 dg	80.0 dg	-0.6	
ANB	2.6 dg	2.0 dg	0.2	
SND	73.0 dg	76.0 dg	-0.8	
A1 to NA	7.8 mm	4.0 mm	1.3	*
A1 to NA	32.7 dg	22.0 dg	1.3	*
B1 to NB	8.7 mm	4.0 mm	2.0	**
B1 to NB	34.7 dg	25.0 dg	1.4	*
A1 to B1	110.0 dg	131.0 dg	-2.2	**
OCC.PL/SN	21.0 dg	14.0 dg	1.6	*

0000 0037 1
CHINESE SAMPLE
F 12.4 02/21/2003

STEINER ANALYSIS

RMO®



AP TO 1 : 7.6 MM
WITS : -3.6 MM