

CASE: 0000 0028 1  
JAPANESE SAMPLE

Dr. TRAINING

F (JA) Japanese

AGE: 9.3

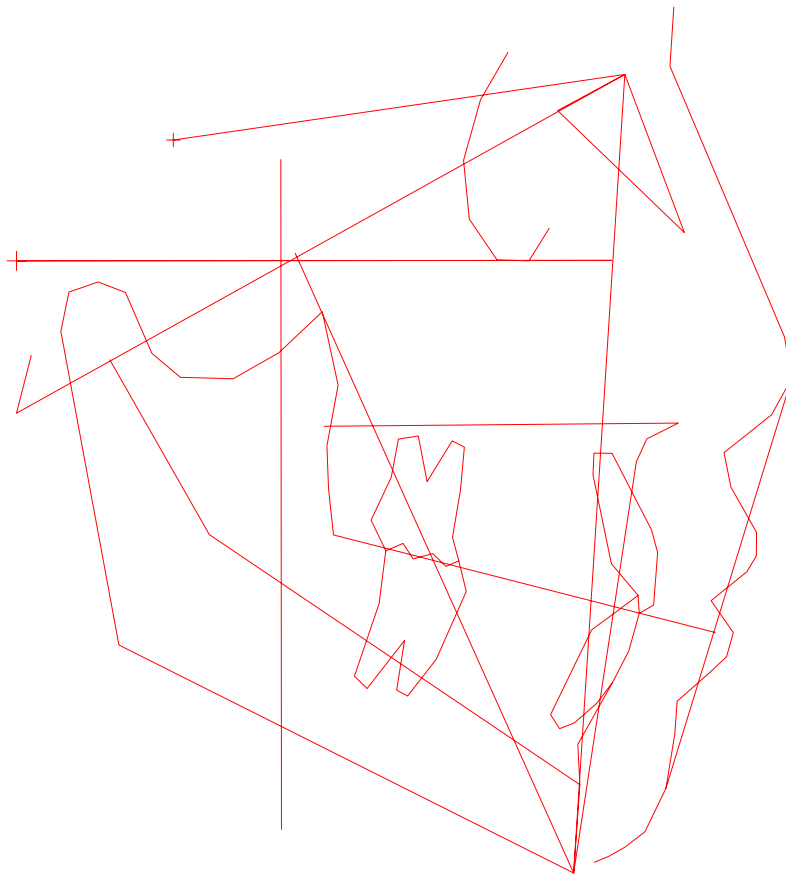
X: 08/28/2001 - R: 02/20/2003

MISSING PERMANENT TEETH

R ————— | ————— L

# VISUAL NORMS

RMO®



JAPANESE SAMPLE  
Dr. Training

RMO Case Number: 0000 0028 1  
RMO Run date: 02/20/2003

X-Ray date: 08/28/2001 Age: 9.3  
Birthdate: 05/09/1992 Sex: Female 5

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	-0.9 mm	-3.0 mm	0.8
03 Canine Relation	-4.7 mm	-0.5 mm	-2.1 **
05 Incisor Overjet	3.0 mm	3.7 mm	-0.3
07 Incisor Overbite	1.9 mm	2.1 mm	-0.1
09 Mand Incisor Extrusion	2.9 mm	2.5 mm	0.2
#11 Interincisal Angle	116.4 dq	124.5 dq	-1.3 *

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

#18 A6 Molar Position to PTV	9.2 mm	13.2 mm	-1.3 *
#20 B1 to A-Po Plane	4.7 mm	3.6 mm	0.5
22 A1 to A-Po Plane	7.3 mm	7.1 mm	0.1
#24 B1 Inclination to A-Po	29.3 dg	23.5 dg	1.5 *
26 A1 Inclination to A-Po	34.2 dg	31.0 dg	0.8
27 Occlusal Plane to Xi	4.0 mm	3.1 mm	0.3
28 Inclination of Occl Plane	18.2 dq	20.9 dq	-0.7
54 B1 Inclination to FH	54.2 dg	65.0 dg	-2.2 **

===== ESTHETICS =====

29 Lower Lip to Esthetic Plane	4.2 mm	2.5 mm	0.9
30 Upper Lip Length	25.7 mm	25.5 mm	0.1
31 Lip Embrasure to Occl Plane	-4.2 mm	-4.8 mm	0.3
58 NasoLabial Angle	96.0 dg	105.0 dg	-1.8 *

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

62 N-S-Ba	129.1 dg	129.6 dg	-0.1
63 Ba-S-PNS	56.1 dg	63.0 dg	-2.7 **
85 Airway Percent	63.5 %	55.0 %	0.6
86 Linder-Aronson AD1	23.2 mm	22.3 mm	0.2
87 Linder-Aronson AD2	18.5 mm	17.7 mm	0.2
88 Distance PTV to Adenoid	10.7 mm	9.6 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	3.2 mm	5.6 mm	-0.8
#15 Lower Facial Height	47.4 dg	48.6 dg	-0.3
84 Present Patient Height	137.0 cm	137.1 cm	
91 Posterior face height	73.1 mm		
92 Anterior face height	110.4 mm		
93 Posterior/Anterior ratio	66.2 %		
94 Saddle Angle	123.5 dg	123.0 dg	0.2
96 Condylion-A point	82.9 mm	88.2 mm	-1.3 *
97 Condylion-Gnathion	106.8 mm	104.0 mm	0.5
95 Max-Mand Differential	23.9 mm	21.2 mm	1.0 *
98 Menton-ANS	61.7 mm	61.4 mm	0.1

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

#32 Facial Depth	87.6 dg	87.1 dg	0.2
#34 Facial Axis	85.5 dg	85.9 dg	-0.1
#36 Maxillary Depth	90.9 dg	91.7 dg	-0.3
37 Maxillary Height	60.1 dg	58.2 dg	0.6
38 Palatal Plane to FH	2.4 dg	1.0 dg	0.4
#39 Mandibular Plane to FH	24.5 dg	26.3 dg	-0.3
77 Ba-N-A	63.5 dg	63.0 dg	0.2
76 S-N-A	81.3 dg	82.0 dg	-0.2
78 S-N-B	77.8 dg	80.0 dg	-0.6
69 A-N-B Difference	3.5 dg	2.0 dg	0.6
75 Total Facial Height	63.1 dg	60.0 dg	1.0 *

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

40 Cranial Deflection	30.1 dg	29.2 dg	0.3
42 Cranial Length Anterior	53.5 mm	51.3 mm	0.6
44 Ramus Height (CF-Go)	60.3 mm	56.9 mm	0.8
46 Ramus Xi Position	76.2 dg	76.5 dg	-0.1
48 Porion Location (Por to PTV)	-38.3 mm	-36.3 mm	-0.8
#50 Mandibular Arc	26.8 dg	26.1 dg	0.2
51 Corpus Length	63.1 mm	60.0 mm	0.7

JAPANESE SAMPLE  
Dr. Training

RMO Case Number: 0000 0028 1  
RMO Run date: 02/20/2003

X-Ray date: 08/28/2001 Age: 9.3  
Birthdate: 05/09/1992 Sex: Female 5

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: JAPANESE SAMPLE  
Doctor name: TRAINING  
Age: 9.3  
X-Ray date: 08/28/2001  
RMO Case Number:  
RMO Run date: 02/20/2003

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

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

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

Assumed skeletal age: 9.3  
Current height: 137.0 cms  
Amount of adult growth achieved: 83.8 %  
Expected adult height: 163.5 cms

===== 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 =====

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

CASE: 0000 0028 1  
 JAPANESE SAMPLE

Dr. TRAINING  
 F (JA) Japanese

AGE: 9.3

X: 08/28/2001 - R: 02/20/2003

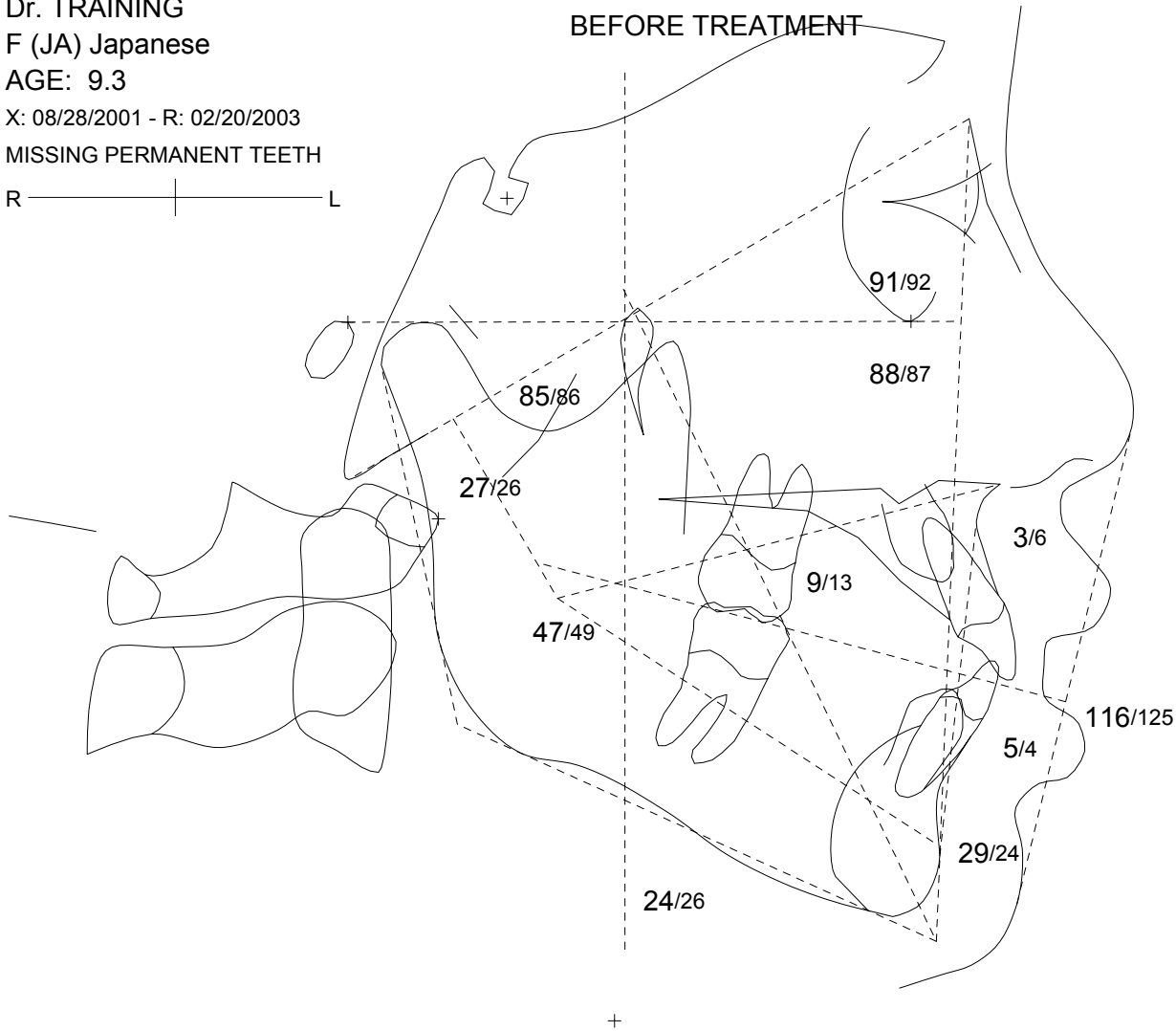
MISSING PERMANENT TEETH

R ————— L

# TRACING

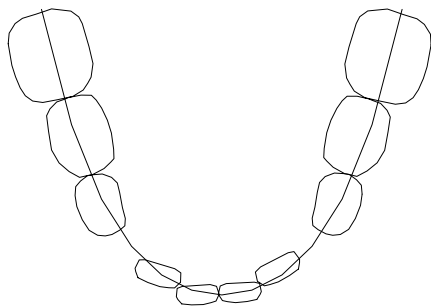
RMO®

BEFORE TREATMENT



MEASURED VALUE/NORM

R L



SHORTAGE 4.8 MM  
 LEEWAY 6.0 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	116.4 dg	124.5 dg	-1.3 *
Convexity	3.2 mm	5.6 mm	-0.8
Lower Facial Height	47.4 dg	48.6 dg	-0.3
A6 Molar Position to PTV	9.2 mm	13.2 mm	-1.3 *
B1 to A-Po Plane	4.7 mm	3.6 mm	0.5
B1 Inclination to A-Po	29.3 dg	23.5 dg	1.5 *
Facial Depth	87.6 dg	87.1 dg	0.2
Facial Axis	85.5 dg	85.9 dg	-0.1
Maxillary Depth	90.9 dg	91.7 dg	-0.3
Mandibular Plane to FH	24.5 dg	26.3 dg	-0.3
Mandibular Arc	26.8 dg	26.1 dg	0.2

JAPANESE SAMPLE  
Dr. Training

RMO Case Number: 0000 0028 1 X-Ray date: 08/28/2001 Age: 9.3  
RMO Run date: 02/20/2003 Birthdate: 05/09/1992 Sex: Female 5

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
Auxiliary Appliances			Questionable	Functional
Headgear	NOT INDICATED		Function	
Activator	NEUTRAL	95.%	5.%	0.%
Palate Separation	N/A - No Arch and Frontal data			
Convexity Objective	Reduce 0.0 mm			

Lower Arch Length Discrepancy (original arch) 1.2 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: 1.4 mm Bwd. Rt: 1.7 mm Bwd.	2.0 mm Decrease	0.8 mm Shortage
Buccal Expansion to Ideal Arch Form		0.4 mm Increase	0.4 mm Shortage
Incisors & Convexity to Cephalometric Limit	2.3 mm Fwd.	4.6 mm Increase	4.2 mm Excess
Lower Molar Distal Movement	0.0 mm	0.0 mm Increase	Not Req'd

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

Movement of First Molar (non-ext.) Required for Class I	0.7 mm Distal
Resulting Expected Space for 2nd & 3rd Molars at Maturity (non-ext.)	14.3 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	Backward 1.5 mm
Buccal Expansion	Gain 0.4 mm
Lower Molar Movement	Backward 0.2 mm

Teeth Sizes:	L6	L5	L4	L3	L2	L1	R1	R2	R3	R4	R5	R6	TOTAL	SUM OF INCISOR	NORM
Lower Arch :	12.1	7.9	7.7	7.3	6.3	5.7	5.7	6.3	7.3	7.7	7.9	11.9	93.8	24.0 MM	21.9

JAPANESE SAMPLE  
Dr. TrainingRMO Case Number: 0000 0028 1  
RMO Run date: 02/20/2003X-Ray date: 08/28/2001 Age: 9.3  
Birthdate: 05/09/1992 Sex: Female 5

Reference: W R N

## W O R K U P

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

Facial pattern: 0.3 CD - Mesofacial  
Lower arch form: NormalMissing permanent teeth: R -----+----- L  
|  
|Lower arch length discrepancy (ALD) 4.8 mm SHORTAGE  
Leeway space 6.5 mm ---  
Maximum use of leeway space 6.0 mm  
Total arch length discrepancy 1.2 mm EXCESS===== COMPUTER DECISION =====  
based on Dr. Training's individualized standards

UPPER ARCH: NON-EXTRACTION

Convexity change NONE

LOWER ARCH: NON-EXTRACTION

Lower incisor BACKWARD 1.5 mm  
Buccal Expansion GAIN 0.4 mm  
Lower molar BACKWARD 0.2 mm  
Extracted teeth  
R -----+----- L  
|  
|

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

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

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

Pentamorphic arch form: Normal  
Arch length relapse: 3.4 mmLower third molar probabilities  
(based on space available)Impaction: 95 %  
Marginal: 5 %  
Functional: 0 %

## 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 4.8 mm shortage
  - B. Useable Leeway Space 6.0 mm
  - C. Total Initial Discrepancy (A+B) 1.2 mm excess
2. Maximum Permissible Arch Length Increase (Within Doctor Limits)  
Due To:
  - D. Lower Incisor Repositioning 2.6 mm increase
  - E. Buccal Expansion 0.4 mm increase
  - F. Lower Molar Distal Movement 0.0 mm
  - G. Total Possible Increase (D+E+F) 3.0 mm increase
3. Resultant Arch Length Discrepancy 4.2 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 0.0 mm
2. Upper incisor tip movement for overbite/overjet ideal to lower 2.1 mm backward
3. First molar movement required 1.8 mm backward
4. First molar movement clinical limit 4.3 mm backward
5. Work-Up Presented Is NON-EXTRACTION

===== COMMENTS =====

JAPANESE SAMPLE  
0000 0028 1

F 9.3

SEQUENCES WORKSHEET  
PHASE I TREATMENT

02/20/2003  
NON-EXTRACTION

RMO®

UPPER ARCH				LOWER ARCH			
ACTIVITY	DESCRIPTION	MONTHS	NOTES	ACTIVITY	DESCRIPTION	MONTHS	NOTES
	DISTALIZE 6	0			INTRUDE 1	0	
		1				1	
		0				0	
		2				2	
		0				0	
		3				3	
		0			DISTAL 6	0	
		4				4	
	RETRACT INCISORS EXTRUDE 1	0				0	
		5				5	
		0				0	
		6				6	
		0				0	
		7				7	
		0				0	
		8				8	
		0				0	
		9				9	
		1				1	
		0				0	
		1				1	
		1				1	
		1				1	
		2				2	
		1				1	
		3				3	
		1				1	
		4				4	
		1				1	
		5				5	
		1				1	
		6				6	
		1				1	
		7				7	
		1				1	
		8				8	
		1				1	
		9				9	
		2				2	
		0				0	
		2				2	
		1				1	
		2				2	
		2				2	
		2				2	
		3				3	
		2				2	
		4				4	

POST TX  
RECORDS

POST TX  
RECORDS

JAPANESE SAMPLE  
0000 0028 1

F 9.3

SEQUENCES WORKSHEET  
PHASE II TREATMENT

02/20/2003  
NON-EXTRACTION

RMO®

UPPER ARCH				LOWER ARCH				
ACTIVITY	DESCRIPTION	MONTHS	NOTES	ACTIVITY	DESCRIPTION	MONTHS	NOTES	
	RETRACT 4 AND/OR 5	0 1			RETRACT 4 AND/OR 5	0 1		
		0 2					0 2	
		0 3					0 3	
		0 4					0 4	
		0 5					0 5	
PROGRESS RECORDS	ALIGN/LEVEL BUCCAL SEGS	0 5		PROGRESS RECORDS	RETRACT 3	0 6		
		0 6					0 7	
		0 7					0 8	
		0 8					0 9	
		0 9					1 0	
PROGRESS RECORDS	IDEAL ARCH	1 1		PROGRESS RECORDS	ALIGN/LEVEL BUCCAL SEGS RETRACT INCISORS	1 1		
		1 2					1 2	
		1 3					1 3	
		1 4					1 4	
		1 5					1 5	
POST TX RECORDS	FINAL ARCH	1 6		POST TX RECORDS	IDEAL ARCH	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			



0000 0028 1  
SAMPLE JAPANESE  
F 9.3

# LONG RANGE GROWTH FORECAST COMPARISON RMO®

NON-EXTRACTION

02/17/2003

WITHOUT TREATMENT

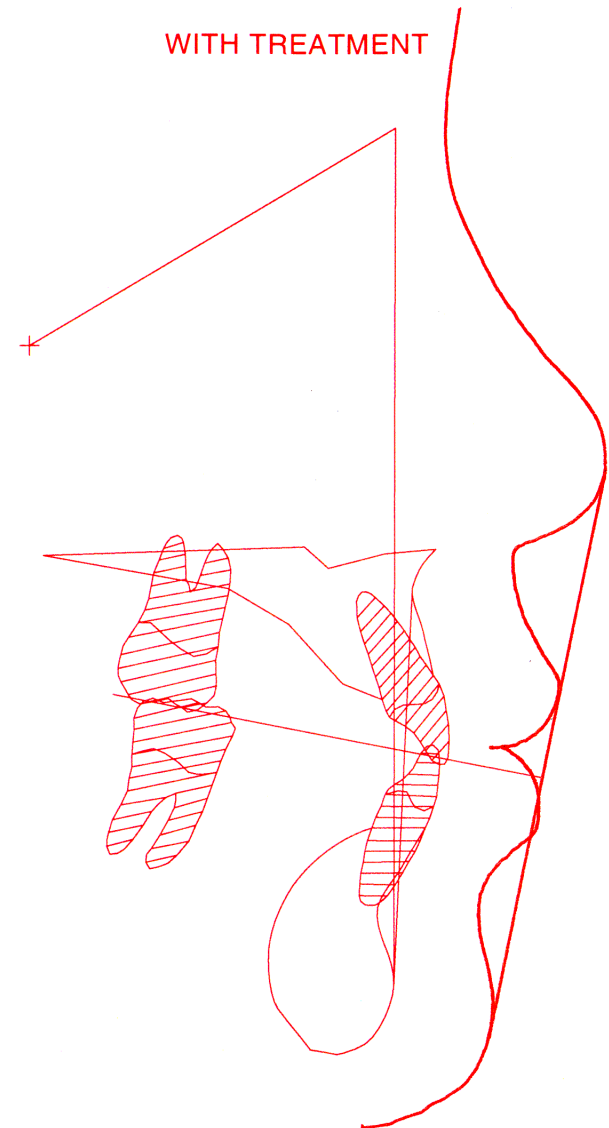


**LOWER THIRD MOLAR PROBABILITIES**  
(BASED ON SPACE AVAILABLE)

IMPACTION: 96 %  
MARGINAL: 4 %  
FUNCTIONAL: 0 %

CURRENT HEIGHT: 137.0 CM  
EXPECTED MATURE HEIGHT: 163.5 CM

WITH TREATMENT



**LOWER THIRD MOLAR PROBABILITIES**  
(BASED ON SPACE AVAILABLE)

IMPACTION: 94 %  
MARGINAL: 6 %  
FUNCTIONAL: 0 %

ARCH LENGTH DECREASE POST TX  
0.0 MM TOTAL

CASE: 0000 0028 1  
SAMPLE JAPANESE  
Dr. TRAINING  
F (JA) Japanese  
AGE: 9.3

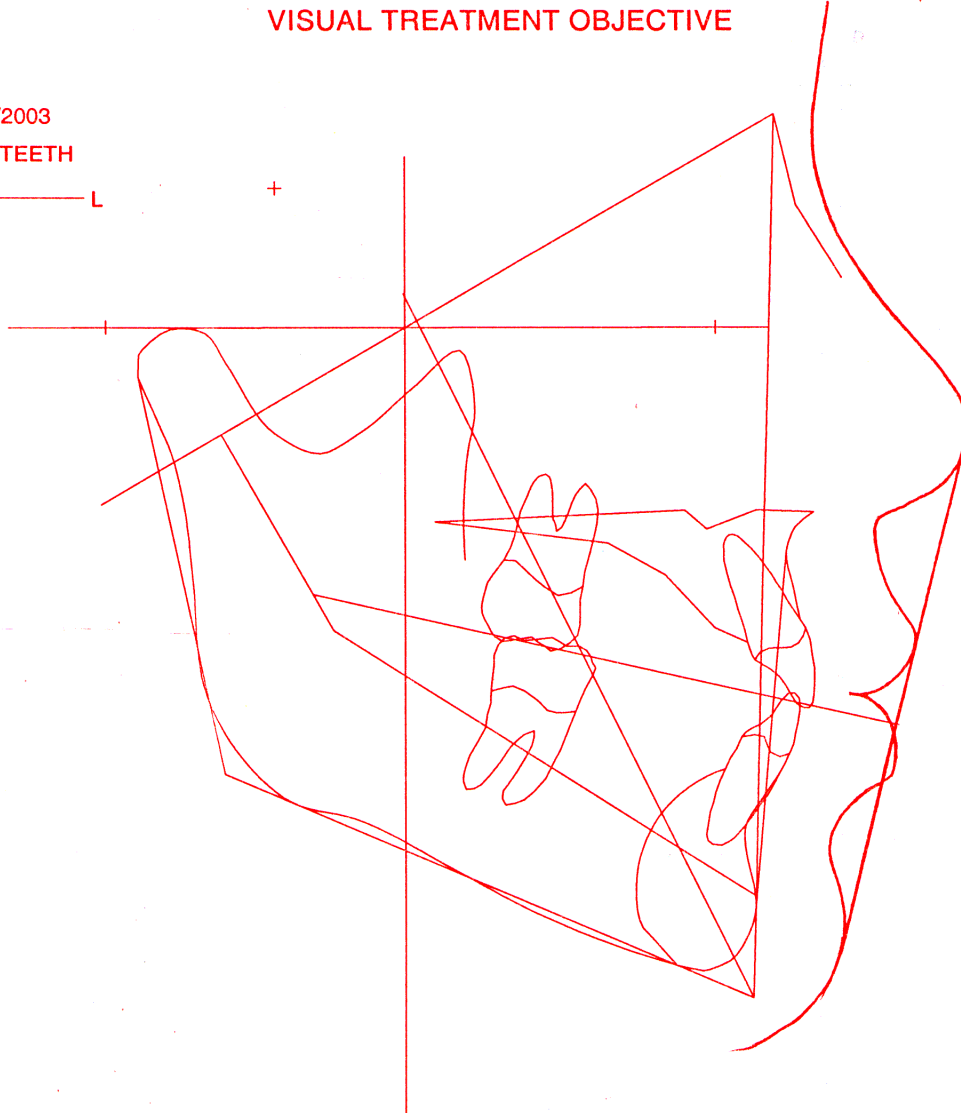
X: 08/28/2001 - R: 02/17/2003  
MISSING PERMANENT TEETH

R ————— L

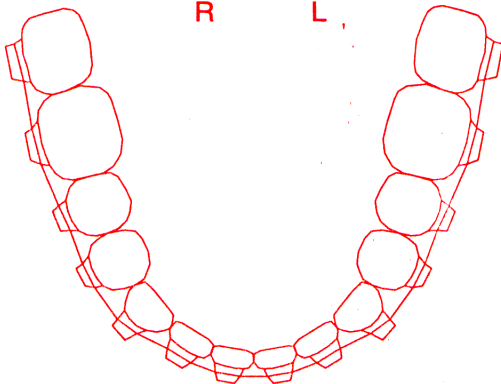
# NON-EXTRACTION VTO

RMO®

## VISUAL TREATMENT OBJECTIVE



SUGGEST  
NORMAL  
RMO PREFORMED  
PENTAMORPHIC ARCHWIRE  
R L



ESPECIALLY PREPARED FOR Dr. TRAINING

### WORKUP PERFORMED

Upper: NON-EXTRACTION  
Lower: NON-EXTRACTION

PREDICTION PERIOD  
24.0 months

### HEIGHT PREDICTION

Current height: 137.0 cms  
Mature height: 163.5 cms

### COMMENTS

GROWTH UNITS  
24.0 months: 2.2

### 3RD MOLAR PREDICTION


Impaction: 94 %  
Marginal: 6 %  
Functional: 0 %

0000 0028 1  
 JAPANESE SAMPLE  
 F 9.3

# NON-EXTRACTION TREATMENT DESIGN

RMO®

02/20/2003

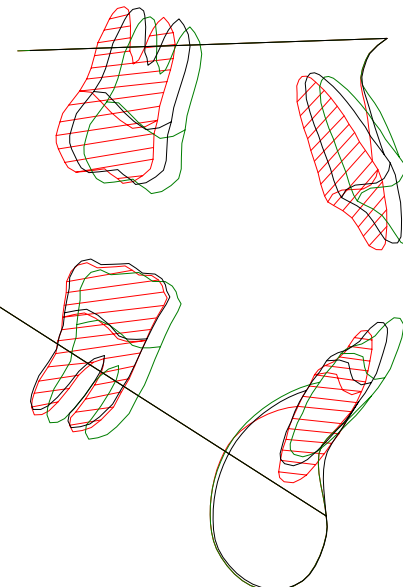
EXTRACT R  L

MAXILLARY CHANGE

CHANGE IN MAXILLARY TEETH

PT. A MOVEMENT NONE 0.0 MM

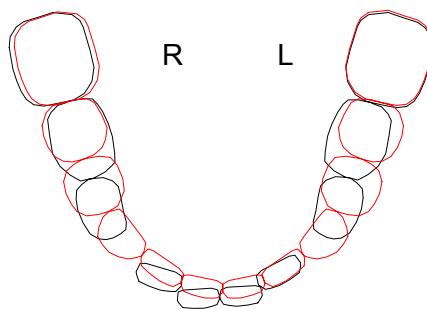
UPPER MOLAR CHANGE



CHANGE IN MANDIBULAR TEETH

LOWER INCISOR	BWD(RT)	1.5	MM
LOWER MOLAR	BWD	0.2	MM

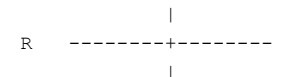
MANDIBULAR GROWTH



## WORKUP PRESENTED

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

## MISSING PERMANENT TEETH



## COMMENTS

 ORIGINAL  
 GROWTH W/O TREATMENT  
 TREATMENT OBJECTIVE

JAPANESE SAMPLE  
Dr. TrainingRMO Case Number: 0000 0028 1  
RMO Run date: 02/20/2003X-Ray date: 08/28/2001  
Birthdate: 05/09/1992Age: 9.3  
Sex: Female 5

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	81.3 dg	82.0 dg	-0.2
SNB	77.8 dg	80.0 dg	-0.6
ANB	3.5 dg	2.0 dg	0.6
SND	73.7 dg	76.0 dg	-0.6
A1 to NA	4.6 mm	4.0 mm	0.2
A1 to NA	26.9 dg	22.0 dg	0.6
B1 to NB	6.8 mm	4.0 mm	1.2 *
B1 to NB	33.2 dg	25.0 dg	1.2 *
A1 to B1	116.4 dg	131.0 dg	-1.5 *
OCC.PL/SN	24.5 dg	14.0 dg	2.4 **

0000 0028 1  
JAPANESE SAMPLE  
F 9.3

02/20/2003

# STEINER ANALYSIS

RMO<sup>®</sup>

