


SPACE SHORTAGE ANALYSIS

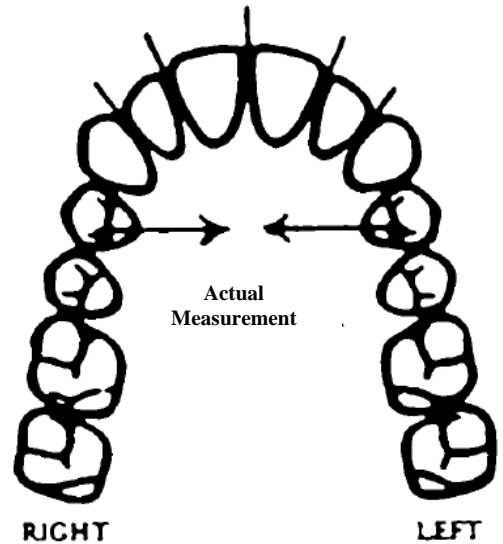
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Name: _____ Date of Record: _____

Age: _____ Gender: M F Race: _____

Using a dental caliper, measure the width of the upper four central incisors and transpalatal distance from 1st bicuspid to 1st bicuspid (occlusal fissure).

Measurement	
	U/R Central _____ mm
	U/L Central _____ mm
	U/R Lateral _____ mm
	U/L Lateral _____ mm
	Total _____ mm
	Total +8 _____ mm
	“Adequate” Space Required _____ mm
	“Actual” Transpalatal Measurement _____ mm
	Space Shortage Calculation _____ mm
<u>SPACE SHORTAGE CROWDING ANALYSIS</u>	
1-2mm Space Shortage = Minimal Crowding	
4-6mm Space Shortage = Moderate Crowding	
7-12mm Space Shortage = Severe Crowding	
See Treatment Considerations based on patient’s age.	



EXTRACTION OF 2ND MOLARS

YES NO

Age	Treatment Consideration Based on Patient’s Age
Up to 9 years	Non-Extraction. DO NOT consider 2 nd molar replacement until prognosis for 3 rd molars can be evaluated.
9 to 12 years	Dental arches can be developed approximately 2mm transversely without 2 nd molar replacement. <u>If the space shortage is 4mm or greater, 2nd molar replacement should be considered for case stability</u> while accommodating the wisdom teeth.
12 to 18 years	Perform 2 nd molar replacement if prognosis of 3 rd molars is <u>favorable</u> in order to improve case stability. Some minor uprighting may be required. Inform before you perform.
Over 18 years	Moderate to severe crowding with an arch length discrepancy will result in critical relapse if 2 nd molar replacement is not consider provided the prognosis for 3 rd molar eruption is favorable. Some minor uprighting may be required. Inform before you perform.
Important Note	If interproximal reduction (slenderizing) is a treatment option, it may alter the above treatment considerations. Slenderizing is discouraged on adolescent patients.

Please visit www.orthodontic.ca under **CASE EVALUATION** to obtain further information about **2nd Molar Replacement**.

Additional information includes:

- A Bibliography of 100 printed articles to supporting your decision to perform 2nd molar replacement.
- Images of pre/post 2nd molar replacement provided by Dr. Merle Bean, a Pediatric Dentist, who has performed more than 3,000 2nd molar extractions cases.
- Self-Study Continuing Education DVD Programs available supporting 2nd Molar Replacement:
 - Dr. James Broadbent, DDS, MS:
 - Achieving Excellence in Functional Jaw Orthopedics and Case Finishing (23 Hours)
 - Dr. Merle Bean, Pediatric Dentist:
 - Merle's Pearls (12 Hours)

**Guidelines for
2nd Molar Replacement**

INDICATIONS INCLUDE:

- Excessive Crowding in both arches
- Normal or Open Growth Direction
- Steep mandibular plane angle with an open bite tendency
- Patient has an obtuse nasal/labial angle
- Maxilla position is posterior, develop pre-maxilla prior to 2nd molar replacement
- Prognosis for wisdom teeth is favorable if 2nd molars were removed

**Guidelines for
2nd Molar Replacement**

CONTRA-INDICATIONS INCLUDE:

- Minimal crowding in both arches
- Deep bite with deep growth direction
- Maxilla position is Normal or Anterior
- Prognosis for wisdom teeth is poor
- Wisdom teeth are congenitally missing

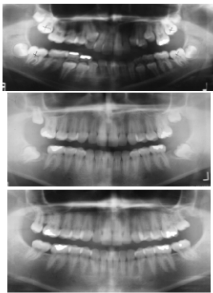
Option: Heavy restoration on the 1st molars.

- At an early age, 1st molar replacement may be considered as taught by Dr. Wilson (WWII treatment)

When considering 2nd Molar replacement, when is the prognosis for wisdom teeth considered POOR?

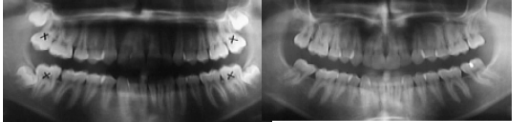
- **Roots are fully formed**
- Crowns are facing you in the panorex
 - Crown Deformity
 - Congenitally missing

2nd Molar Replacement



- Orthodontists generally remove bicuspid and wisdom teeth leaving the patient with 24 teeth
- 2nd molar replacement leaves the patient with 28 teeth and:
 - ✓ A Broad Smile
 - ✓ Healthy TMJ
 - ✓ Full Mid-Face

*Images compliments of Dr. Merle Bean.



It is far less traumatic to perform 2nd molar replacement when indicate than to surgically remove severely impacted wisdom teeth.

It is also more cost-effective for the family!

**American Journal of
ORTHODONTICS**

1955

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The role of upper second molar extractions in orthodontics. Dr. TM Graber

Visit www.orthodontic.ca under CASE EVALUATION for a Bibliography of 100 printed articles on 2nd Molar Replacement.