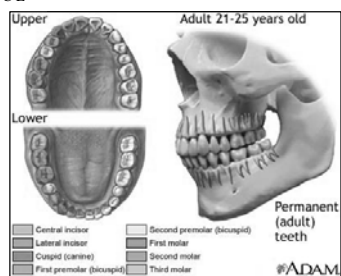


THE DEVELOPING OCCLUSION

AT A GLANCE



RICHARD YOON

1

THE DEVELOPING OCCLUSION

SIX STAGES

- Birth to the complete primary dentition
- First intertransitional period
- First transitional period
- Second intertransitional period
- Second transitional period
- Adult dentition

Orderly Sequence

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2

THE DEVELOPING OCCLUSION

SIX STAGES

- Birth to the complete primary dentition
- First intertransitional period
- First transitional period
- Second intertransitional period
- Second transitional period
- Adult dentition

- Identifiable Periods
- Continuum of Activity
- Quiescent Interludes

RICHARD YOON

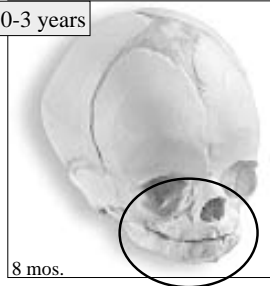
3

THE DEVELOPING OCCLUSION

STAGE I

Birth to the complete primary dentition 0-3 years

- First intertransitional period
- First transitional period
- Second intertransitional period
- Second transitional period
- Adult dentition



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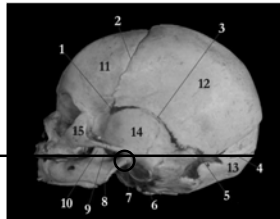
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THE DEVELOPING OCCLUSION

STAGE I IMMATURITY OF THE MANDIBLE

Birth to the complete primary dentition

- First intertransitional period
- First transitional period
- Second intertransitional period
- Second transitional period
- Adult dentition



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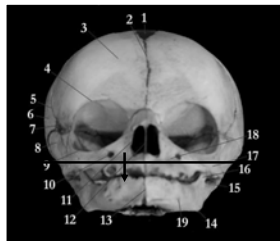
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THE DEVELOPING OCCLUSION

STAGE I

Birth to the complete primary dentition

- First intertransitional period
- First transitional period
- Second intertransitional period
- Second transitional period
- Adult dentition



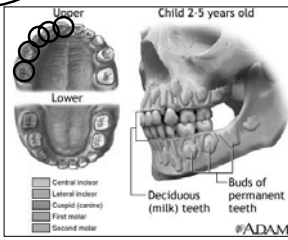
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6

THE DEVELOPING OCCLUSION

STAGE I ERUPTION PATTERN

- Birth to the complete primary dentition
- First intertransitional period
- First transitional period
- Second intertransitional period
- Second transitional period
- Adult dentition



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THE DEVELOPING OCCLUSION

STAGE I RULE OF FOUR

Primary teeth	Erupt	Shed
Upper teeth		
Central incisor	8-12 mos.	6-7 yrs
Lateral incisor	9-13 mos.	7-8 yrs
Canine (cuspid)	16-22 mos.	10-12 yrs
First molar	13-19 mos.	9-11 yrs
Second molar	25-33 mos.	10-12 yrs
Lower teeth		
Second molar	23-31 mos.	10-12 yrs
First molar	14-18 mos.	9-11 yrs
Canine (cuspid)	17-23 mos.	9-12 yrs
Lateral incisor	10-16 mos.	7-8 yrs
Central incisor	6-10 mos.	6-7 yrs

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8

THE DEVELOPING OCCLUSION

STAGE I

- Birth to the complete primary dentition
- First intertransitional period
- First transitional period
- Second intertransitional period
- Second transitional period
- Adult dentition



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THE DEVELOPING OCCLUSION
 STAGE 2 QUIESCENT INTERLUDE

Birth to the complete primary dentition → Spacing

First intertransitional period 3-6 years → Biological Changes

First transitional period → Vertical Relationship

Second intertransitional period

Second transitional period

Adult dentition

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THE DEVELOPING OCCLUSION
 STAGE 2 FIRST INTERTRANSITIONAL PERIOD

SPACE

PRIMATE 60 %

GENERALIZED 40 %

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THE DEVELOPING OCCLUSION
 STAGE 2 PRIMATE SPACES

Birth to the complete primary dentition

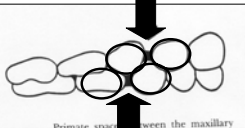
First intertransitional period

First transitional period

Second intertransitional period

Second transitional period

Adult dentition



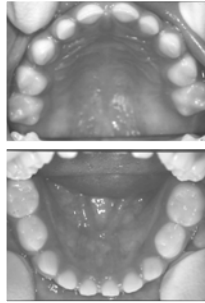
Primate spaces between the maxillary primary lateral incisor and primary canine and between the mandibular primary canine and mandibular first molar (Modified from Baume LJ: *J Dent Res* 29:129, 1950.)

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THE DEVELOPING OCCLUSION

STAGE 2 GENERALIZED SPACES

- Birth to the complete primary dentition
- First intertransitional period
- First transitional period
- Second intertransitional period
- Second transitional period
- Adult dentition



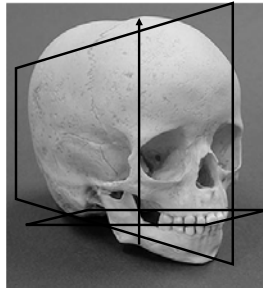
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THE DEVELOPING OCCLUSION

STAGE 2 VERTICAL CHANGES

- Birth to the complete primary dentition
- First intertransitional period
- First transitional period
- Second intertransitional period
- Second transitional period
- Adult dentition



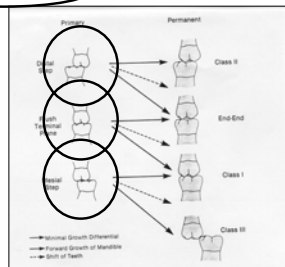
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THE DEVELOPING OCCLUSION

STAGE 2 VERTICAL RELATIONSHIP

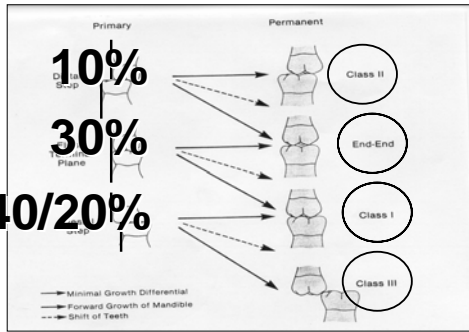
- Birth to the complete primary dentition
- First intertransitional period
- First transitional period
- Second intertransitional period
- Second transitional period
- Adult dentition



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THE DEVELOPING OCCLUSION
STAGE 2 VERTICAL RELATIONSHIPS



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THE DEVELOPING OCCLUSION
STAGE 2 APPPOSITION & RESORPTION

- Birth to the complete primary dentition
- First intertransitional period
- First transitional period
- Second intertransitional period
- Second transitional period
- Adult dentition



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THE DEVELOPING OCCLUSION
KEYPOINTS

- Vertical Positioning
- Spacing
- Molar Terminal Plane

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THE DEVELOPING OCCLUSION

STAGE 3 FIRST EXCHANGE

Birth to the complete primary dentition

First intertransitional period

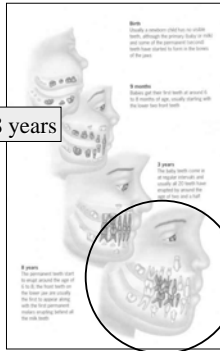
First transitional period

6-8 years

Second intertransitional period

Second transitional period

Adult dentition

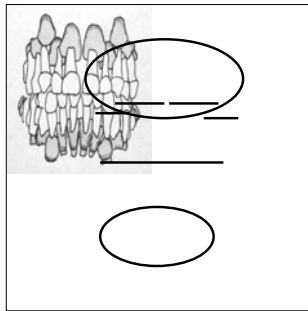


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THE DEVELOPING OCCLUSION

STAGE 3 FIRST TRANSITIONAL PERIOD

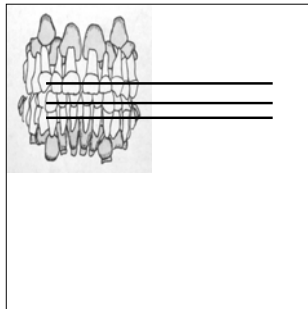


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THE DEVELOPING OCCLUSION

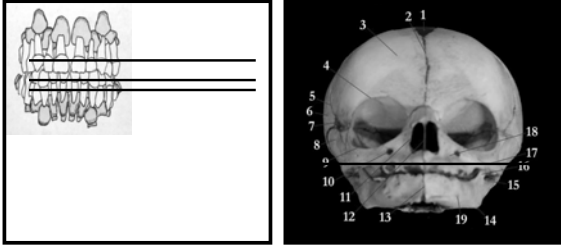
STAGE 3 FIRST TRANSITIONAL PERIOD



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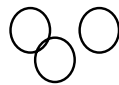
THE DEVELOPING OCCLUSION
STAGE 3 FIRST TRANSITIONAL PERIOD



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22

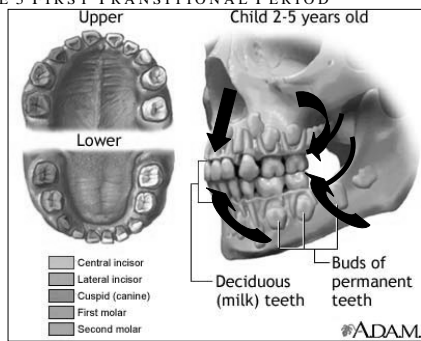
THE DEVELOPING OCCLUSION
STAGE 3 FIRST TRANSITIONAL PERIOD



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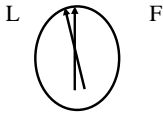
THE DEVELOPING OCCLUSION
STAGE 3 FIRST TRANSITIONAL PERIOD



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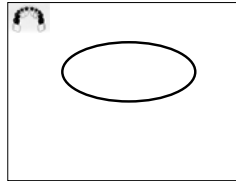
THE DEVELOPING OCCLUSION
STAGE 3 FIRST TRANSITIONAL PERIOD



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THE DEVELOPING OCCLUSION
STAGE 3 FIRST TRANSITIONAL PERIOD



↘ Incisor Liability

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THE DEVELOPING OCCLUSION
STAGE 3 INCISOR LIABILITY

- ↘ Interdental Spacing
- ↘ Inter canine Arch Width
- ↘ Anterior Placement

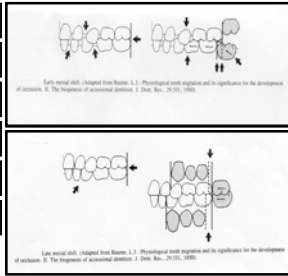
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THE DEVELOPING OCCLUSION

STAGE 3 MESIAL SHIFTS

- Birth to the complete primary dentition
- First intertransitional period
- First transitional period
- Second intertransitional period
- Second transitional period
- Adult dentition

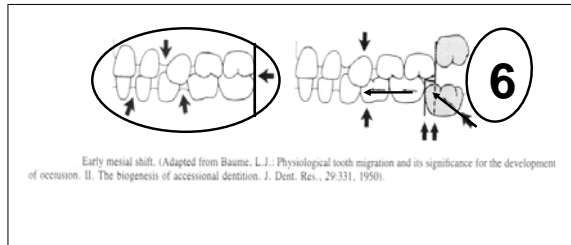


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THE DEVELOPING OCCLUSION

STAGE 3 EARLY MESIAL SHIFT

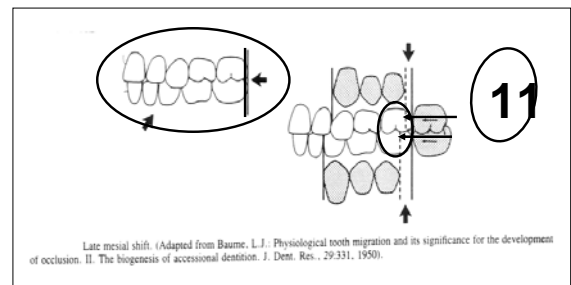


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THE DEVELOPING OCCLUSION

STAGE 3 LATE MESIAL SHIFT

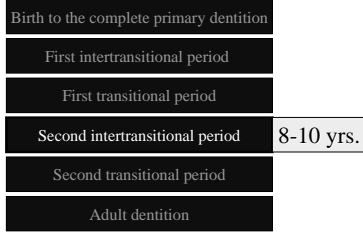


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THE DEVELOPING OCCLUSION

STAGE 4 QUIESCENT INTERLUDE

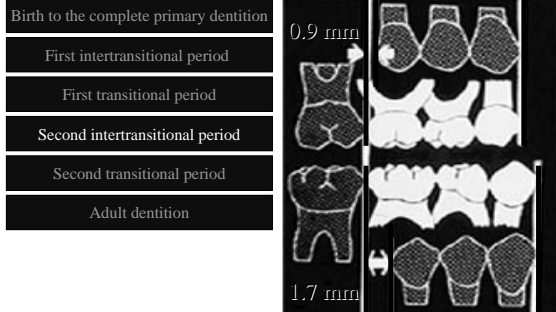


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THE DEVELOPING OCCLUSION

STAGE 4 LEEWAY SPACE



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THE DEVELOPING OCCLUSION

STAGE 4 LEEWAY SPACE

→ Size Differential

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THE DEVELOPING OCCLUSION

STAGE 4 GABLE EFFECT

- Birth to the complete primary dentition
- First intertransitional period
- First transitional period
- Second intertransitional period
- Second transitional period
- Adult dentition



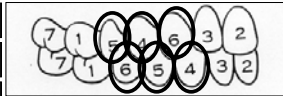
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THE DEVELOPING OCCLUSION

STAGE 5 LAST EXCHANGE

- Birth to the complete primary dentition
- First intertransitional period
- First transitional period
- Second intertransitional period
- Second transitional period 10-12 yrs.
- Adult dentition



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THE DEVELOPING OCCLUSION

STAGE 5 CUSPIDS

- Birth to the complete primary dentition
- First intertransitional period
- First transitional period
- Second intertransitional period
- Second transitional period
- Adult dentition



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THE DEVELOPING OCCLUSION

STAGE 5

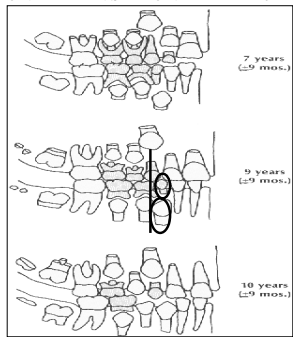
- Birth to the complete primary dentition
- First intertransitional period
- First transitional period
- Second intertransitional period
- Second transitional period
- Adult dentition

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THE DEVELOPING OCCLUSION

STAGE 5 SECOND TRANSITIONAL PERIOD



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THE DEVELOPING OCCLUSION

STAGE 6

- Birth to the complete primary dentition
- First intertransitional period
- First transitional period
- Second intertransitional period
- Second transitional period
- Adult dentition



12-20 yrs. functional

- ↘ Esthetic
- ↘ Stable

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THE DEVELOPING OCCLUSION

KEYPOINTS

Normal Molar Relationship	<input checked="" type="checkbox"/>	Definitions
Early Mesial Shift	<input checked="" type="checkbox"/>	Eruption
First transitional period		Sequence
Late Mesial Shift		Molar Relationships
Incisor Liability	<input checked="" type="checkbox"/>	Percentages
Normal Incisal Relationship		

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