



11:45 AM - 12:00 PM

Intro to the Pediatric Exam and Palatial Growth

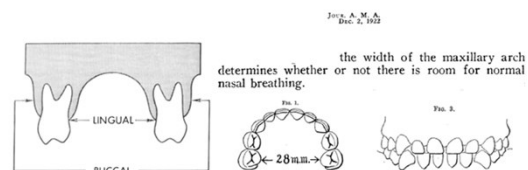
By Kevin Boyd, DDS / Main Auditorium

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The Bogue Index(BI) *

The **Bogue Index** is an inter-molar width measured at the gingival margin of the maxillary 2nd deciduous molar and is predicated on a baseline of 28 mm 'by age 4' to indicate adequate (for supporting nasal breathing) maxillary width; according to **EA Bogue, MD, DDS**,* if the BI is not at least 28mm by age 4 then a child should be treated w/maxillary expansion...or what he had described as 'spreading the deciduous arch'. After the maxillary 2nd primary molar has exfoliated the BI is measured at the gingival margin of the 2nd premolar. I inferred the approximation algorithm of '24 mm + chronological age' from measured museum specimens and various pre-WW II med-dent literature published by Bogue and others who'd found it to be a reliable metric for determining the optimal maxillary transverse dimension during childhood growth from ages 4-12 years.

NB-The BI is not a diagnostic measurement but rather an indicator of risk (for maxillary transverse deficiency ONLY) and has not yet been scientifically validatedbut I'm working on it. Also, the BI tracks closely with McNamara's suggested *optimal* inter-molar width at the upper 1st permanent molars of 37-39mm by age 12+/-.



Date BI (mm)

* Bogue, E.A. 'The Relations of the Dental Arches to Pathologic Affections of the Nasopharynx'. Amer Med. Assoc., Transactions of Section on Dis. of Childhood, 58:110 (1907).

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C-GASP – Children's General Airway Screening Protocol

How to participate in the C-GASP pilot research project

Fill out the registration form from this link (QR code) and the staff will contact you within the next two weeks.

Go to this QR code link → 

<https://airwayassessment.azurewebsites.net/register>

- Do you see pediatric patients in your practice?
- Do you want to participate in a validation study using a screening questionnaire developed by the Children's Airway Screen Taskforce (CAST), known as the Children's General Airway Screening Protocol (C-GASP)?

If you see patients ages 2 – 12 yrs old and are interested in implementing the C-GASP in your practice then register now. Go to the link below and register and to attend a webinar to learn more.

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Measurement Questionnaire

Subject Number: test1234321 C-GASP completion date: 03/31/2024



Dentition *

Primary Dentition



Mixed Dentition

Permanent Dentition

Deciduous (Primary) Molar Relationship (click an image) : *

Mesial Step(MS) (Normal) Distal Step(DS) (CL II)

Edge to Edge/Flush Terminal Plane(FTP) Excessive Mesial Step (CL III)

Measurement Questionnaire

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Dentition *

Primary Dentition



Mixed Dentition

Permanent Dentition

Deciduous (Primary) Molar Relationship (click an image) : *








Mesial Step(MS) (Normal) Distal Step(DS) (CL II)

Edge to Edge/Flush Terminal Plane(FTP) Excessive Mesial Step (CL III)

Permanent Molar Relationship (click an image) : *

Class I Edge-to-Edge Class II Class III

Measurement Questionnaire

Subject Number: test1234321 C-GASP completion date: 03/31/2024





Dentition *

Primary Dentition

Mixed Dentition

Permanent Dentition

Permanent Molar Relationship (click an image) : *

Class I Edge-to-Edge Class II Class III

4

Lower Anterior Crowding *

None

Yes (even slightly)

Posterior Dental Crossbite *

None


Unilateral

Bilateral

Horizontal Dental Relationship Overjet - OJ (Norm = 2-4 mm) *

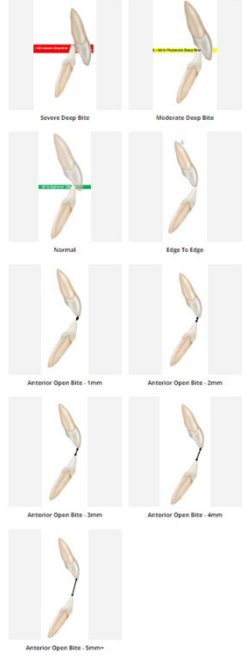
Choose...

overjet



Overjet
Upper Incisal Edge to the most prominent surface on lower incisor

Vertical Dental Relationship Overbite - OB (Norm = 2-4 mm) Op / Mid / Deep *



Upper Inter Canine Distance (cusp tip to cusp tip)

Primary Measurement # C to # H = ___ mm *

Choose...

Permanent Measurement # 6 to # 11 = ___ mm

Choose...

InterMolar Distance (see How to Measure)

Primary Measurement # A to # J (Bogue) = ___ mm *

Choose...

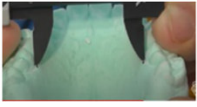
Permanent Measurement # 3 to # 14 = ___ mm

Choose...

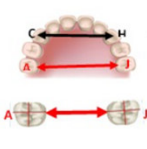
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How to measure InterMolar Distance

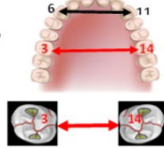
- Primary Dentition:** Arrow measuring distance between maxillary 2nd primary inter-molar distance (Bogue) should measure the shortest at the gingival margin.
- Permanent Dentition:** Arrow measuring distance between maxillary 1st permanent inter-molar distance (McNamara) should point to distal lingual groove (DLG) at the gingival margin.






Primary Dentition



Permanent Dentition



Vertical Facial Proportions

Eyebrow				
Subnasale				
Chin / Submental				

Short Face
Optimal Face (1/3 / 2/3)
Long Face

Credit: Images used with permission and courtesy of Dr. Tom Griffin, DMD - [InterActive Communication and Training \(IACT\)](#), Birmingham, Alabama

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