

BASICS OF CEPHALOMETRIC ANALYSIS

OT 417.30

SUMMER/FALL QUARTERS 2018

Renie Ikeda

FORMAT OF SEMINARS:

- Read the literature that will be discussed prior to the seminar.
- Additional readings are listed for your reference, but are optional.
- When applicable, bring a cephalometric tracing/measurements of your patient with the analysis/analyses of the day.
- A short presentation will take place and discussion on clinical application will follow.

<u>Date</u>	<u>Topic</u>	<u>Assignment</u>
TOPIC #1 8/09/2018	<ul style="list-style-type: none"> - History of Cephalometry - Cephalometric technique - Review of landmarks - Errors and information gained 	<ol style="list-style-type: none"> 1. Weems – Radiographic Cephalometry Technique (Ch 3 of Radiographic Cephalometry text) 2. Caufield – Tracing Technique and Identification of Landmarks (Ch 4 of Radiographic Cephalometry text) <p><u>Additional reading:</u> Baumrind & Frantz – AJO 60:111-127, 1971. Reliability of headfilm measurements 1. Landmark ID Baumrind & Frantz – AJO 60:505-517, 1971. Reliability of headfilm measurements 2. Conventional angular and linear measurements</p>
TOPIC #2 08/09/2018	<ul style="list-style-type: none"> - Superimposition 	<ol style="list-style-type: none"> 1. Jacobson & Sadowsky – Superimposition of Cephalometric Radiographs (Ch 13 of Radiographic Cephalometry text) <p><u>Additional reading:</u> Baumrind <i>et al.</i> – AJO 70:617-644, 1976. The reliability of head film measurements 3. Tracing superimposition Doppel <i>et al.</i> AJO 105:161-168, 1994. Investigation of maxillary superimpositions using metallic implants</p>
TOPIC #3 8/16/2018	<ul style="list-style-type: none"> Analyses - Steiner - Tweed 	<ol style="list-style-type: none"> 1. Jacobson – Steiner Analysis (Ch 7 of Radiographic Cephalometry text) 2. Vaden & Klontz – Tweed Analysis (Ch 11 of Radiographic Cephalometry text) <p><u>Additional reading:</u> Steiner – AO 29:8-29, 1959. Cephalometrics in</p>

		<p>clinical practice</p> <p>Servoss – AO 41:146-149, 1971. Derivation of acceptable arrangements in the Steiner Analysis</p> <p>Tweed – AO 24:121-169, 1954. The Frankfort-mandibular incisor angle in Orthodontic diagnosis, tx planning, and prognosis</p>
<p>TOPIC #4 8/16/2018</p>	<p>Analyses - Sassouni</p>	<p>1. Sassouni – AJO 41:735-764, 1955. A roentographic cephalometric analysis of cephalo-facial-dental relationships</p> <p>2. Sassouni – AJO 55:109-123, 1969. A classification of skeletal facial types</p>
<p>TOPIC #5 8/23/2018</p>	<p>Analyses - Wits Appraisal</p>	<p>1. Jacobson – Wits Appraisal (Ch 9 of Radiographic Cephalometry text)</p> <p><u>Additional reading:</u> Jacobson – AJO 70:179-189, 1976. Application of the “Wits” appraisal</p>
<p>TOPIC #6 8/23/2018</p>	<p>Analyses - Ricketts</p>	<p>1. Jacobson – Ricketts Analysis (Ch 8 of Radiographic Cephalometry text)</p> <p><u>Additional reading:</u> Ricketts – AO 31:141-156, 1961. Cephalometric analysis and synthesis</p>
<p>TOPIC #7 9/06/2018</p>	<p>- Age, Sex, and Racial differences</p>	<p>1. Baum – AO 21:96-103, 1951. A cephalometric evaluation of the normal skeletal & dental pattern of children with excellent occlusion</p> <p>2. Drummond – AJO 54:670-682, 1968. A determination of cephalometric norms for the Negro race</p> <p>3. Uesato <i>et al.</i> – AJO 73:321-327, 1978. Steiner cephalometric norms for Japanese and Japanese-Americans</p>
<p>TOPIC #8 09/20/2018</p>	<p>- Soft tissue analysis</p>	<p>1. Jacobson & Vlachos – Soft Tissue Evaluation (Ch 19 of Radiographic Cephalometry text)</p> <p><u>Additional reading:</u> Holdaway – AJO 84(1):1-28, 1983. A soft tissue cephalometric analysis and its use in orthodontic treatment planning.</p> <p>Mobarak <i>et al.</i> – AJODO 119:353-367, 2001. Soft tissue profile changes following mandibular advancement surgery: predictability and long-term outcome</p>

TOPIC #9 09/20/2018	- Growth analysis	<ol style="list-style-type: none">1. Fishman – AO 52:88-112, 1982. Radiographic evaluation of skeletal maturation. A clinically oriented method based on hand-wrist films2. Baccetti <i>et al.</i> – AO 72:316-323, 2002. An improved version of the cervical vertebral maturation (CVM) method for the assessment of mandibular growth <p><u>Additional reading:</u></p> <p>Franchi <i>et al.</i> – AJODO 118:335-340, 2000. Mandibular growth as related to cervical vertebral maturation and body height</p> <p>Flores-Mir <i>et al.</i> – AO 76:1-5, 2006. Correlation of skeletal maturation stages determined by cervical vertebrae and hand-wrist evaluations</p>
------------------------	-------------------	---