

Scenario-based Clinical Exam Information and Sample Cases



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Cast-Radiograph Evaluation



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For the Cast-Radiograph Evaluation examinees will be shown images of models and panoramic radiographs and will be asked to answer questions based on the information provided.

Superimposition



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The Examinee will be presented with some or all of the following case records, as needed:

- Initial photo montage
- Initial intraoral photographs
- Initial panoramic radiograph
- Initial lateral cephalogram
- Initial hand-wrist radiograph
- Final photo montage
- Final intraoral photographs
- Final panoramic radiograph
- Final lateral cephalogram
- Final superimpositions

Superimposition Sample Question

Question 1

Classification

Domain 4: Critical Analysis and Outcomes Assessment

Prompt

Assuming the time between pre- and post-treatment records was 34 months, what dental changes occurred as a direct result of treatment? Please list in bullet point format below.

Model Responses

The number of responses required to attain a fully proficient or borderline proficient score will depend on the changes that are observed in the superimposition relative to normal growth during the treatment interval.

Case Management Form (CMF)



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CMF Sample Question

Question 1

- The examinee will have access to the following records: Initial photo montage, initial intraoral photographs, initial lateral cephalogram, initial cephalometric tracing, and the pre-treatment skeletal analysis (see example below).

	PRE TX A
SNA°	81.0
SNB°	72.0
ANB°	9.0
SN-MP°**	48.0
FMA°	39.0

CMF Sample Question

Question 1

Classification

Domain 2: Treatment Objectives and Planning

Opening Scenario

A 16-year, 2-month-old female presents with the chief complaint that “My teeth stick out.”

Prompt

Using the lateral cephalometric analysis and the CMF chart, identify appropriate skeletal treatment objectives. Please list in bullet point format below.

Model Responses

The board expects a fully proficient response for this question to include:

- Increase SNB
- Decrease ANB
- Decrease SN-MP
- Decrease FMA

CMF Sample Question

Question 2

- The examinee will have access to the following records: Initial photo montage, initial intraoral photographs, initial lateral cephalogram, initial cephalometric tracing, final photo montage, final intraoral photographs, final lateral cephalogram, final cephalometric tracing, and the pre- /post-treatment skeletal analysis (see example below).

	PRE TX A	PROG A1	POST TX B	DIFF. A-B
SNA°	81.0		81.0	0.0
SNB°	72.0		70.0	-2.0
ANB°	9.0		11.0	2.0
SN-MP°**	48.0		50.0	2.0
FMA°	39.0		41.0	2.0

CMF Sample Question

Question 2

Classification

Domain 4: Critical Analysis and Outcomes Assessment

Opening Scenario

A 16-year, 2-month-old female presents with the chief complaint that “My teeth stick out.”

Prompt

Describe the skeletal changes and your rationale for what occurred. Please list in bullet point format below.

Model Responses

The board expects a fully proficient response for this question to include:

- Decrease in SNB due to inadequate vertical control
- Increase in ANB due to inadequate vertical control
- Increase SN-MP due to inadequate vertical control
- Increase in FMA due to inadequate vertical control

CMF Sample Question

Question 3

- The examinee will have access to the following records: Initial photo montage, initial intraoral photographs, initial lateral cephalogram, initial cephalometric tracing, and the pre-treatment dental analysis (see example below).

	PRE TX A
<u>1</u> TO NA mm	9.0
<u>1</u> TO SN°	111.0
- <u>1</u> TO NB mm	16.0
- <u>1</u> TO MP°	107.0

CMF Sample Question

Question 3

Classification

Domain 2: Treatment Objectives and Planning

Opening Scenario

A 16-year, 2-month-old female presents with the chief complaint that “My teeth stick out.”

Prompt

Identify appropriate dental treatment objectives for the variables in the case management table. Please list in bullet point format below.

Model Responses

The board expects a fully proficient response for this question to include:

- Retract maxillary incisors to NA
- Retract mandibular incisors to NB
- Decrease mandibular incisor proclination to MP
- Decrease maxillary incisor proclination to SN

CMF Sample Question

Question 4

- The examinee will have access to the following records: Initial photo montage, initial intraoral photographs, initial lateral cephalogram, initial cephalometric tracing, final photo montage, final intraoral photographs, final lateral cephalogram, final cephalometric tracing, and the pre- /post-treatment dental analysis (see example below).

	PRE TX A	PROG A1	POST TX B	DIFF. A-B
<u>1</u> TO NA mm	9.0		-2.0	11.0
<u>1</u> TO SN°	111.0		77.0	34.0
⁻ <u>1</u> TO NB mm	16.0		9.0	7.0
⁻ <u>1</u> TO MP°	107.0		97.0	10.0

CMF Sample Question

Question 4

Classification

Domain 4: Critical Analysis and Outcomes Assessment

Opening Scenario

A 16-year, 2-month-old female presents with the chief complaint that “My teeth stick out.”

Prompt

Describe the changes in the maxillary and mandibular incisor position observed in this case. Please list in bullet point format below.

Model Responses

The board expects a fully proficient response for this question to include:

- Excessive retraction of maxillary incisors
- Lack of torque control in maxillary incisors
- Retraction of mandibular incisors
- Adequate torque control of mandibular incisors