

PERIODONTICS SIMULATION

The Periodontics Simulation is offered where the Periodontal Treatment (patient-based) section is not available and for candidates intending to be licensed in states not requiring completion of a periodontal procedure on a patient.

Periodontics Simulation Section Overview

The Periodontics Simulation section is a one and a half (1½) hour exam consisting of one (1) practical performance component:

- **Treatment**—the thorough scaling and root-planing of all teeth in the assigned quadrant of a simulated dental arch.

Candidates will be given one and a half (1½) hours to complete the simulation and will be allowed in the simulation lab an additional 30 minutes before the exam to set up.

All teeth in the assigned quadrant must be treated. Candidates are evaluated on the thoroughness of calculus removal and root-planing for all teeth in the assigned quadrant.

The use of sonic or ultrasonic devices is acceptable; the use of rotary instruments and/or chemicals for calculus removal is prohibited.

Note: Overly aggressive instrumentation and/or wedging scaling instruments interproximally can result in cause unintended **extraction** of the simulated tooth. Also, using an ultrasonic scaler with a high-power setting can easily result in unintended damage to the simulated teeth and/or gingiva.

Supplies

Acadental materials will be used for the Periodontics Simulation section. In the simulation lab, candidates will receive, in a ziplock bag:

1. *A Periodontics Simulation Worksheet* (sample, page 109)
2. The mandibular ModuPRO DH arch with simulated calculus to be treated

Candidates will need to provide:

1. A ModuPRO One model
2. The maxillary ModuPRO One arch, (or another suitable alternative opposing arch)
3. Articulator required at some site (check the “Dental Exam Site Information”)

The “Dental Exam Site Information” (available at wreb.org) has detail on compatible equipment and whether candidates may purchase supplies through the school. Arches may be purchased directly from Acadental at acadental.com/WREB. Only the supplies listed in the “Dental Exam Site Information” are provided by the school. Anything needed that the school is not providing is the candidate’s responsibility.

Candidates can bring the *Dental Exam Candidate Guide* into the simulation and refer to it during the exam. Notes, textbooks, or other informational material must not be brought into the simulation lab. No magnification other than loupes is allowed. No electronic devices are allowed in the simulation; cell phones and smart watches are strictly prohibited.

Exam Procedure

There is an assigned time for the Periodontics Simulation. Candidates should review their clinical exam schedule carefully when they receive notification that group assignments have been made. Candidates should report to the designated simulation lab at the appointed time. When entering the simulation lab, candidates must be wearing their Candidate ID Badge and it must be visible.

Workstations for the simulation are pre-assigned. The proctor will direct candidates to their assigned workstation when they enter the simulation.

During setup time candidates can organize their workstation, obtain the labeled ziplock bag from the proctor containing the needed arch and worksheet, fill out the worksheet, label and properly mount the arch in the simulated patient (manikin), and obtain the required setup check from the Floor Examiner. After receipt of the ziplock bag and arch, candidates may not leave the simulation session without permission of the Floor Examiner.

Setup Check

The Floor Examiner will perform a setup check and initial the *Periodontics Simulation Worksheet*. The following should be ready for the Floor Examiner:

1. Candidate ID and the date clearly written in the space provided on the *Periodontics Simulation Worksheet*.
2. Candidate ID Number clearly written on simulated gingiva on the floor of the mandibular arch with permanent black marker.
3. The mandibular arch properly mounted in the manikin with a suitable opposing arch.
4. The manikin in a normal patient head position, open at a normal vertical dimension, and not overextended.
5. Workstation (operatory) light on.
6. Mouth mirror available for Floor Examiner use.

When the items above are ready, call a Floor Examiner to perform the setup check. If everything is in order, the Floor Examiner will initial the Floor Examiner line on the worksheet. After receipt of the setup check, the arches are not to be removed from the manikin head until the procedure is completed, and the arch is ready for submission with its accompanying worksheet. A candidate who leaves the simulation lab or removes the arches at any time during the exam is subject to failure if permission to do so was not first received from a Floor Examiner.

Candidates must not start treatment until they have received a setup check from the Floor Examiner AND the Floor Examiner has announced the start of the exam. Starting treatment before being authorized to begin results in failure of the Periodontics Simulation section. Following the announcement, candidates have one and a half (1½) hours to complete the section.

When start of the exam is announced, begin treatment (scaling and root-planing for the assigned quadrant). Maintain proper simulation protocol (manikin head position) throughout the simulation.

The Floor Examiner is available throughout the session to review modification requests and answer questions relative to administration of the exam and the proper completion of forms. The Floor Examiner also is responsible for monitoring exam security. The Floor Examiner circulates through the simulation lab and observes candidates while the exam is underway to ensure that:

- Proper patient head position and normal vertical dimension are appropriately simulated throughout the exam
- None of the simulated dental arches are removed from any articulator until they are ready to be submitted
- Standard Precautions are followed
- Candidates work independently

Candidates should inform the Floor Examiner immediately if a problem arises. For example, candidates should immediately notify a Floor Examiner if there is clinic equipment failure. Lost time due to school equipment failure may be compensated if it is more than fifteen (15) minutes from the time it is reported to the Floor Examiner. There is no compensation if less than 15 minutes is lost or if the problem is the candidate's own equipment failure.

Similarly, if a tooth loosens in the arch or any other problem arises, candidates should stop treatment and inform the Floor Examiner immediately.

Assistants are not permitted for this procedure. Candidates may not assist each other. This includes critiquing another candidate's work or discussion of treatment.

Candidates are to work independently, observe Standard Precautions, and work in a manner that simulates performing the procedures on a patient. Any unprofessional, unethical, or inappropriate behavior could result in immediate dismissal and failure of the Periodontics Simulation.

Completing the section

When turning in the ziplock bag after treatment, it must include:

1. The completed *Periodontics Simulation Worksheet*.
2. The treated arch with Candidate ID written on the floor of the arch with a permanent black marker.
3. Any forms received from the SFE (if applicable)

It is the candidate's responsibility to ensure that all materials listed above are turned in to the WREB proctor. The proctor will note the candidate's checkout time but is not responsible for checking submitted materials. **Candidates who leave the simulation lab are subject to failure of the Periodontics section if required items are missing.**

The Simulation Floor Examiner will announce time remaining at intervals of approximately 30 minutes, 15 minutes, 5 minutes, and 1 minute before the submission deadline; however, completing the exam and submitting everything required on time remains wholly the candidate's responsibility. Late penalties will be assessed if the allotted time is exceeded. A penalty will be deducted from the Periodontics Simulation score for every five (5) minutes the submission is late. After 15 minutes, all points for the Periodontics Simulation section will be lost.

The finish deadline for each exam session is fixed. Candidates who report late to an assigned session will have less than the allotted time to complete their treatment. WREB cannot extend the time for individual candidates. Candidates who complete their treatment early may submit their materials to the proctor at the check-in desk and leave the simulation lab.

Candidates who work until the submission deadline must immediately afterward clean their workstation and leave the simulation so that preparation of the facility for the next activity can occur without delay.

A random selection of models may be evaluated at the end of each exam. Any alteration will result in failure of the entire exam and appropriate disciplinary action will be taken.

Major Tissue Trauma

Major tissue trauma is defined as iatrogenic damage to extra-intraoral tissues resulting in significant injury to the patient, such as lacerations, burns, amputated papillae, large tissue tags, or excessive and unanticipated damage to the simulated gingiva. A validated finding of major tissue trauma by two or more Grading Examiners results in loss of all points and failure of the Periodontics section. A validated finding of major tissue trauma constitutes a critical error that precludes an onsite retake of the Periodontics section.

References

Caton J., Armitage G., Berglundh T., et al. *A new classification scheme for periodontal and peri-implant diseases and conditions – Introduction and key changes from the 1999 classification.* J Clin Periodontol. 2018;45(Suppl 20): S1–S8. <https://doi.org/10.1111/jcpe.12935>

PERIODONTICS SIMULATION SCORING

Scoring

A final score of 75.00 or higher is required to pass the Periodontics Simulation section. Validated calculus remaining is an error which is documented by at least two Grading Examiners and will be scored on the following scale:

Validated Calculus Remaining	Score
0	100.00
1	87.50
2	75.00
3	62.50
4	50.00
5	37.50
6	25.00
7	12.50
8	0.00

Onsite Retakes


Candidates with a failing result for the Periodontics Simulation may have an opportunity to retake the section at the same exam site on the last day of the exam with no additional fees. This will be dependent on each candidate's scheduled sections and individual time constraints. Candidates with a validated finding of Major Tissue Trauma will not be allowed to retake the Periodontics Simulation section at the same exam site and will be required to retake the section at a different time or site. (Retake fees will apply.)


LATE PENALTIES	
1 to 5 minutes late	= 4% deduction
6 to 10 minutes late	= 8% deduction
11 to 15 minutes late	= 12% deduction
16 or more minutes late	= Procedure will not be graded. No points earned.

UNUSUAL SITUATIONS
The following unusual situations result in failure of the Periodontics Simulation section:
<ul style="list-style-type: none">• Left simulation lab with arch or without permission• Started without a setup check or before start time announced by the Floor Examiner• Repeated failure to use Standard Precautions• Repeated violation of simulation protocol

CRITICAL ERRORS
<p>The following critical errors result in failure of the Periodontics section and preclude an onsite retake:</p> <ul style="list-style-type: none">• Major tissue trauma (validated by two or more Grading Examiners)

Front





PERIODONTIC SIMULATION WORKSHEET

Candidate ID#: _____

Date: _____

Quadrant Assigned for Treatment

UR
UL
LL
LR

Setup Check

- Completed *Periodontic Simulation Worksheet*
- The arch appropriately mounted in the manikin with a suitable opposing arch
- The mandibular arch has the Candidate ID Number written on the floor of the arch with permanent black marker
- Manikin in correct patient treatment position with correct vertical dimension
- Light on
- Mirror available

2021

Floor Examiner

Back

Note to Examiners (if necessary)	Grading Examiner Initials		

Checklist of required items after treatment (in ziplock bag)

- Completed *Periodontic Simulation Worksheet*
- The treated arch
- Candidate ID Number written on the floor of the arch with permanent black marker
- Deliver ziplock bag to the WREB Proctor before leaving the simulation lab

This worksheet must be turned in with your arch