

DENTAL ASSISTING

RADIATION SAFETY HANDBOOK

Guidelines and Policies Regarding the use of Ionizing Radiation

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GUIDELINES AND POLICIES REGARDING THE USE OF IONIZING RADIATION

The policy of Lawson State Community College Dental Assisting program regarding the use of ionizing radiation follows the American Dental Association, American Association of Dental Schools, and Alabama Department of Public Health, Radiation Safety.

INTRODUCTION:

Radiographic examination(s) must be ordered only after a complete review of the medical, oral and dental histories and following a thorough clinical examination. Diagnostic radiographic examinations provide essential information for diagnosis, treatment and prevention of oral and dental diseases. Diagnostic radiographs are thus an indispensable and integral component of dental practice authorized at the discretion of the dentist to benefit the patient based on specific selection criteria.

The use of x-radiation for diagnostic purposes carries with it the responsibility to ensure that our patients, co-workers and the public-at-large are protected. In simple terms, this means that no one should receive any unnecessary radiation, and that the patient receives only the minimum amount of radiation necessary to obtain required diagnostic information not reasonably available through other safe means. All College members must strive to keep exposure to radiation at ALARA (As Low As Reasonably Achievable) levels.

Radiographs may only be requested by a licensed dental or medical practitioner, and only for conditions that he/she might treat or refer for treatment. No radiographs are to be made solely for administrative or teaching purposes. Guidelines for exposure are posted by each unit, but do not relieve the operator from considering factors that might require change

The purpose of this manual is to limit radiation exposure and ensure the proper and safe utilization of all radiographic equipment in the Dental Assisting Program. It will promote safety awareness of the faculty, staff, and students and benefit the patients by instructing all associated dental personnel in the applicable rules for protection from unnecessary exposure and overexposure to ionizing radiation.

RADIATION SAFETY POLICIES & PROCEDURES

In the interest of safeguarding faculty, staff, students and patients the following policies and procedures have been developed. These policies and procedures must be strictly followed for the safety of everyone.

ALL FACULTY, STAFF, AND STUDENTS WHO EXPOSE AND PROCESS RADIOGRAPHS IN THE DENTAL ASSISITING FACILTY MUST:

- 1. Read and practice the Safe Operating Procedures
- 2. Read and follow this Radiation Safety and Instruction Manual
- 3. Tour and receive instructions for using the LSCC Dental Assisting Program's x-ray facility
- 4. Verify compliance with all of the above by placing a signature on file.
- 5. Hold and maintain current CPR certification.

CHANGE IN MEDICAL CONDITIONS(S)

- Clinicals are an integral part of your learning experience. Therefore, the importance in attending clinicals is very important. If you have a change in your medical condition since acceptance into the program (for example, pregnancy, infectious disease, interference with mobility, emotional instability, etc.), we need to make sure it is medically safe for you to return to clinicals.
- Before returning to clinicals, you will be required to submit a letter from your physician/healthcare provider stating <u>no limitations</u> (the letter must be on the healthcare provider's letterhead) AND a signed copy of the Essential Functions/Eligibility Criteria document from your physician to both the program director and the clinical practice supervisor.

Further details in <u>Dental Assisting Student Handbook</u>

ALARA Policy:

Exposure to the patient and operator can be kept to a minimum by keeping the exposures "As Low As **R**easonably **A**chievable" (ALARA) using the following Safe Operating Procedures:

Safe Operating Procedures (SOP):

- 1. Study the standards and the program's safe operating procedures prior to initially operating the x-ray machine.
- 2. Use digital sensors or the fastest film speed available.
- 3. Use proper filtration (2.5mm when over 70kVp)
- 4. Use proper collimation for small beam size
- 5. Use only open-ended, lead lined position indicating device PID)
- 6. Use the long position indicating device when possible
- 7. Use a film holder (no human finger)
- 8. Pregnant Patient No radiographs will be exposed on a pregnant patient or one suspicious of being pregnant unless those radiographs are deemed absolutely necessary for emergency treatment.
- 9. In every case, final determination for prescribing radiographs is by the authority of a licensed dentist and is based on the patient's needs.
- 10. Lead Apron Use Shielding is required for all intraoral exposures on all patients regardless of age or number of exposures. The thyroid collar must also be used. Since lead is a very soft metal, care should be taken when handling and storing lead aprons. Avoid bending, creasing or folding these shields. Aprons must be hung and inspected on a routine basis for cracks.
- 11. During each exposure, the individual operating the x-ray machine will stand at least six feet from the patient, outside of the enclosed radiology room. Only the patient will be in the useful beam. When exposing radiographs in the Dental Clinic, the operator must exit the radiography operatory. The exposure switch location for all x-ray equipment prohibits activation inside the room.
- 12. Dead Man Switch The dead man switch is located outside the radiology room on the wall. The switch is designed to be on only when pressed by the operator. If the switch is not being pressed, the equipment is on standby and not generating x-rays.
- 13. Each individual operating the x-ray machine will read for themselves and be instructed in the applicable provision of the Alabama Public Health Dental Radiation Safety Procedures.
- 14. Exposure of a student's 'real 'patients will be performed only under the direct supervision of a licensed dentist. Exposures on a manikin may be under direct supervision of a licensed dental health professional.
- 15. The American Dental Association (ADA) Guidelines will be followed regarding exposure of radiographs on patients (after review of the current medical and dental history). In all cases, final determination for radiographs will be based on individual patient needs and the principles of ALARA.
- 16. An exposure technique chart and additional notices are posted in each radiography room.

17. In the case of an unusual event, the program director and radiation protection supervisor should be notified immediately. These same individuals should be notified in an employee or student has questions concerning these policies.

Alabama Department of Public Health Radiation Safety Procedures for Use Of x-rays in a Dental Practice

1. No x-ray exposure will be permitted of any patient unless ordered directly or verbally by a practitioner of the dental arts. Routine standing orders are acceptable if approved by the practitioner.

2. The clinician shall position the x-ray tube and the patient so that the x-ray beam will not be pointed at the clinician when the exposure is being made.

3. The clinician will stand behind a protective barrier or a minimum of six feet away from the patient when any x-ray exposure is being made.

4. No clinician shall hold a film in the patient's mouth, or the x-ray tube during any x-ray exposure.

5. Patients will be shielded with a lead apron whenever possible during x-ray exposures.

6. No one other than the patient, shall be allowed in the room during x-ray exposures.

7. All x-ray films will be processed either manually by the time temperature method or in a properly maintained automatic processor.

8. All darkrooms will be lightproof and if safelights are present, they must emit light only in the wavelengths that the films used are not sensitive to.

9. The dentist shall be informed of any pregnant patients that x-ray examinations are ordered on. At this point the dentist will decide if the x-ray examination will be performed, modified, delayed, or cancelled.

Scan X (Phosphor plates)

Lawson State uses intraoral phosphor plate x-ray which eliminates the need for traditional film processing for dental radiography. Phosphor storage plates can convert exiting film-based imaging systems to a digital format that can be integrated into a computer.

How to takes FMX with phosphor plates: https://www.youtube.com/watch?v=hz1q92VDVDk

Using Patterson Imaging Software

- 1. Select the Patterson Dental icon on computer desktop
- 2. Provider should be: SEVENTEEN STUDENT
- 3. NO PASSWORD
- 4. Select 'LISTS' at top of screen
- 5. Select 'PATIENTS'
- 6. Entering Patient Name:

a. <u>IF EXPOSING DEXTER/MANIKIN, THE IMAGES WILL BE FILED UNDER YOUR</u> <u>NAME.</u>

- i. First time using: Enter your name as new patient.
- ii. After initial time-Find your name and double click.
- b. IF EXPOSING 'REAL' PATIENT, ENTER PATIENT NAME.
- 7. Select 'New Exam'
- 8. Select 'Lawson FMX Series'
- 9. Make sure ScanX is on and connected to computer.
- 10. Select 'Image' at top of screen
- 11. Select 'Acquire'
- 12. Select 'Start' to start the processor.
- 13. Make sure the blue light on scanner is NOT flashing. Wait for green light to load phosphor plates.
- 14. Put phosphor plate in processor **1 at a time.** Wait until light turns form orange to green before putting the next phosphor plate in processor.
- 15. Place barriers on scanned film as it comes out of processor.
- 16. Select 'Finish' when complete.
- 17. Arrange film on mount as needed.

If Adding to Existing FMX

Be sure to select highest number on FMX **BEFORE** placing phosphor plate in processor.

Patterson Imaging Software

Printing Radiographs

- 1. Find patient from 'LIST'
- 2. Select set of radiographs to be printed.
- 3. Go to 'FILE'
- 4. Select 'PRINT ALL'
- 5. Select 'LANDSCAPE'
- 6. PRINT

Remember: Patient signed permission sheet is required before printing and providing to any patient, even fellow student.

Using Phosphor Plates (Scan X)

- 1. Know the sides of the phosphor plate.
 - a. X-ray side (side to expose to x-rays)



Remember: any exposure to light will darken the image

b. Identification side (side away from x-rays)



2. Putting phosphor plate in barrier.

a. Place plate in barrier so that you see the identification side.



3. Placing on RINN

- a. Place so black side of barrier is toward the x-ray beam.
- b. Place so " a " on plate is at incisal edge of tooth OR if bwx, a will show on mandibular teeth.



Rinn Assembly

BWX

Color: red

- 1. Place bite block in left hand and metal bar in right hand
- 2. Make sure the side of the bite block that holds the film is facing away from you
- 3. Insert metal bar into bite block using the correct color coded inserts
- 4. Place plastic ring on bar using the correct color coded end
- 5. Make sure ring is centered over bite block

ANTERIOR PA

Color: blue1. Place bite block in left hand and metal bar in right hand2. Make sure the side of the bite block that holds the film is facing toward you3. Repeat steps 3, 4, and 5 (see above, BWX)

POSTERIOR PA

Color: yellow (Same steps as anterior PA) ** ALWAYS MAKE SURE THE METAL BAR IS ON THE OUTSIDE OF THE MO

Vertical Angulation for Exposure Chart

Maxillary Arch	Average (+) Vertical Angulation Settings
Incisor	+ 50*
Canine	+ 45*
Premolar	+ 30*
Molar	+ 20*
Mandibular Arch	Average (-) Vertical Angulation Settings
Incisor	- 15*
Canine	-20*
Premolar	-10*
Molar	-5*
Bitewings	Average (+) Vertical Angulation Settings
Premolar	+5* to +10*
Molar	+5* to +10*



Exposure Guidelines:

- 1. All potential patients will complete LSCC medical/dental history form before radiation exposure.
- 2. All potential patients will sign an informed consent before radiation exposure.
- 3. In every case, final determination for prescribing radiographs is by the authority of a licensed dentist and is based on the patient's needs
- 4. Lawson will follow the ADA Guidelines for Exposure-only adult patients will be exposed.
 - a. Four Bitewings (BWX)
 - i. Patient has not had bitewings in over 1 year-BWX indicated
 - ii. Patient has no or low caries risk; BWX-every 24-36 month interval
 - iii. Patient has moderate to high caries risk, BWX every 6-18 month interval
 - b. Full Mouth (FMX)
 - i. Patient has never had full mouth series FMX indicated
 - ii. Patient has not had full mouth series in over 3 years FMS indicated
 - iii. Patient has contributing circumstances including but not limited to, implants, craniofacial pathoses, multiple restorative/endodontic needs *clinical judgement of dentist*.
- 5. Bitewings may be taken either as a separate entity or as part of a full mouth series, but not both.
- 6. Radiographs must be arranged correctly and saved in patient's chart with proper documentation.
- 7. Upon signed request by patient, radiographs may be securely sent to patient's dentist.

Retake Policy:

A "retake" is a radiograph that is taken a second time after the initial exposure. The following information outlines the policy to limit radiation exposure to the patient.

A. Mannikin:

- 1. Retakes are <u>not</u> permitted without radiology lab instructor approval and signature on competency form.
- 2. Retakes are required when:
 - a. Bitewings:
 - i. Teeth not in occlusion
 - ii. Interproximal of teeth are not visible and caries could not be detected
 - iii. Crest of interproximal alveolar bone is not visible.
 - iv. Radiology lab instructor recommends for improvement of student technique.
 - b. Periapical:
 - i. The targeted tooth's apex and 2-3 mm of alveolar bone is not visible in image.
 - ii. Crest of interproximal alveolar bone is not visible.
 - iii. The elongation or foreshortening is extremely exaggerated.
 - iv. Radiology lab instructor recommends for improvement of student's technique.
- 3. Retakes are never made to improve the student's grade, but to improve the student's learning and technique.
- 4. Retakes are limited in number and are based upon which series of radiographs the student is exposing. (see individual competency sheet for numbers)

B. 'Real' Patient:

- 1. Retakes are <u>not</u> permitted without radiology dentist approval and signature on competency form
- 2. Retakes are required when:
 - a. Bitewings:
 - i. Teeth not in occlusion
 - ii. Interproximal of teeth are not visible and caries could not be detected
 - iii. Crest of interproximal alveolar bone is not visible.
 - b. Periapical:
 - i. The targeted tooth's apex and 2-3 mm of alveolar bone is not visible in image.
 - ii. Crest of interproximal alveolar bone is not visible.
 - iii. The elongation or foreshortening is extremely exaggerated.
- 3 Retakes are never made to improve the student's grade, but for diagnostic purposes.
- 4. Retakes are limited on patients. If the supervising dentist prescribes a re-take, the dentist will directly assist the student is achieving a diagnostic image. If a student is deemed incompetent in exposing radiographs on a patient, the supervising dentist will dismiss patient and student and student will be required to attend remediation.
- 5. All retakes on patients will be recorded in Radiology Retakes Log.
- 6. The Radiology Retake Log can be found in Radiology Lab near Scan X machine.

EQUIPMENT:

Students are instructed in proper use of equipment and patient care according to state laws and regulation. The equipment is maintained by the Lawson State Community College Dental Assisting Program. For equipment malfunctions notify the Dental Assisting Program Director.

Equipment Use:

- 1. Handouts explaining the use of extraoral equipment are found in proximity of the respective machines.
- 2. Scan X phosphor plates are dispensed by faculty and must be treated carefully, do not bend or scratch plates.
- 3. Tubeheads must be folded tightly against the wall when not in use.

Location of Equipment and Supplies:

- 1. Intraoral xray machines are located in the Dental Assisting clinic Radiography Room #11 and 13.
- 2. Two adult radiology practice manikins located in the Radiography rooms.
- 3. Scan X phosphor plates are stored in the locked cabinets near the radiology rooms and will be dispensed by faculty.
- 4. Lead aprons with a thyroid collar are located in each radiology room.
- 5. RINNS are located in the Sterilization Room in drawer marked 'Radiology Supplies'
- 6. The master copy of Lawson State's <u>Guidelines and Policies Regarding Ionizing Radiation</u> is located in the Resource Room (Room #3 in the Dental Assisting Clinic). The manual is also made available to each student in DAT 112: Dental Radiology.
- 7. The current equipment registration certificate is posted in the radiology area of clinic.

X-RAY MACHINE NOT FUNCTIONING:

In the event of notification through a professional inspection by The Alabama Department of Public Health, that a radiation generating equipment unit does not meet safety standards, the following steps will be taken:

- 1. Cease exposing radiographs with the problem unit until safe operation is validated. Continue exposing radiographs with units that are not problematic.
- 2. The Dental Assisting program director will schedule an immediate service call and authorized repair or replacement, as necessary.
- 3. The findings, repair notes and/or evidence of the purchase of new equipment will be filed. (if new equipment is required, program director will file with Alabama Department of Public Health)
- 4. In the event a x-ray machine can not be used due to safety issues, a sign will be posted on door of radiography room reading "DO NOT USE THIS X-RAY UNIT".



EXPOSING PATIENTS POLICY & PROCEDURES

INFECTION CONTROL GUIDELINES IN DENTAL RADIOLOGY

Each student must take upmost care to follow all guidelines pertaining to infection control. As a health professional it is your responsibility. Infection control is made easier if you think about what you are doing and the things that you touch. In order to prevent disease transmission in the radiology lab use the following guidelines when:

Preparing the Operatory:

- 1. Don your PPE (jacket, safety glasses, mask, utility gloves)
- 2. Use a disinfectant to wipe items on any potential surface that will be touched. Including but not limited to: tube head, extension arm, control panel and exposure switch
- 3. Remove gloves, wash hands
- 4. Place barrier covers on headrest, control panel, exposure button.
- 5. Place tray cover on counter to hold supplies, RINN, cotton rolls, scan X etc.
- 6. Label a sterilization bag for RINN so it is ready for use after you finish.

During Patient Exposure:

- 1. Complete all paperwork required prior to treatment and obtain necessary signatures.
- 2. Position patient in chair and cover patient with lead apron and thyroid collar.
- 3. Explain to patient the need for radiographs and the process.
- 4. Ask patient to remove any jewelry, removable dental appliances, lip/tongue rings that may interfere with image.
- 5. Wash hand, don PPE.
- 6. Open sterilization bags and prepare RINN and sensors
- 7. Expose radiographs
- 8. Dry barrier with scan x phosphor plate inside.
- 9. Open barrier, drop scan x plate in clean disposable cup (be sure to cover cup and not allow light to hit phosphor plate.
- 10. Expose all scan x plates and prepare for processing as above.
- 11. Process all phosphor plates and arrange.
- 12. View images with supervising dentist prior to patient dismissal in order to expose retakes and allow dentist to inform patient of significant findings.
- 13. Dismiss patient when approved by faculty dentist.

Breakdown of Operatory After Exposure:

- 1. Don PPE (see above)
- 2. Place RINN or other x-ray aids in autoclave bags and send to sterilization processing.
- 3. Remove barriers and dispose.
- 4. Use a disinfectant to wipe items on any potential surface that will be touched. Including but not limited to: tube head, extension arm, control panel, exposure switch and lead apron.
- 5. Store lead apron
- 6. Remove PPE and wash hands
- 7. Complete all required documentation.

CHECKLIST OF PROCEDURES FOR TAKING RADIOGRAPHS ON PATIENTS

Student:	Date:

Prior to Exposing Radiographs:

- ____ Dentist Rx
- ____ Reason for radiographs and type requested (FMX, BWX)
- ____ Date and number of most recent radiographs
- _____ Medical/Dental health history, Vital Signs recorded (signed by patient)
- ____ Consent forms completed and signed by patient (Consent for X-ray and HIPAA form)
- ____ Consent to print patients x-ray images. (Patient X-Ray Request & Release Form signed by patient)
- ____ Placed phosphor plate in plastic barrier with print visible in window.
- ____ Set Up RINN correctly for desired image.

After Exposure, but Prior to Patient Dismissal:

- _____ View radiographs and consult with clinical dentist to discuss improvements, possible pathologies, and if retakes are necessary for diagnosis.
- ____ Retakes as prescribed by clinical dentist
- ____ If dentist finds need for referral for care, complete 'Referral for Treatment' form and signed by dentist.
- ____ Print radiographs for patient if they requested after prior permission by dentist.

After Patient Dismissed:

- ____ X ray log signed, and retakes entered
- ____ Student self-assessment form completed
- ____ Appropriate evaluation sheet with all information at top completed
- ____ Treatment Record completed and signed by clinical dentist/faculty.

Faculty Signature: _____

Comments: _____

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Lawson State Community College Dental Clinic Bessemer, AL 35077

MEDICAL/DENTAL HEALTH HISTORY FORM

Nomo					/	/	
Name:		First		Initial	/	Date of Birth	
Address		City	State Zip Co	de	Home Phone		- Work Phone
CHECK THE APPROP Are you currently under a							
Physician's Name:		Address:				_	
Date of Last Physical Exa	.m:						
		unized of flue d serious	llness within the p	ast m(0)	years:		
<i>If yes, please explain.</i> Yes or No - Do you regula Do you have or have you had	arly use toba	cco or tobacco products	If yes, please exp		•		
Yes or No- Do you regula	arly use toba	cco or tobacco products	If yes, please exp		•		
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Do you have any disease, condition, or problem not listed? Ifyes, explain:

DENTAL HISTORY

Т

Chief Dental Complaint:				
Date of Last Dental Visit: Last Cleaning: Date of Last X-Rays: Type (if known)				
Dentist's Name				
 Please circle Yes or No: Yes or No Do you see a dentist regularly? Yes or No Are you having pain or discomfort at this time? Yes or No Are you wearing removable dental appliances? Yes or No Have you ever had a bad experience in the dental office? Yes or No Are any of your teeth sensitive to hot/cold/sweets/biting or chewing? Yes or No Do your gums bleed or hurt? Yes or No Have you experienced any pain/clicking/popping of the jaw joints? Yes or No Is your drinking water fluoridated? How often do you brush? 				
How often do you brush? How often do you floss?				

To the best of my knowledge, all of the preceding answers are true and correct. If I ever have any changes in my health or medicine(s), I will inform the dental health care provider at the next appointment without fail.

Patient (Guardian) Signature:	_ Date:
Instructor Signature:	_ Date:

PLEASE DO NOT WRITE BELOW (to be completed by dental health care provider):

MEDICATIONS: List all medications taken in the past six months.				
Date	Drug Name	Dosage	Indications	Dental Concerns

VITAL SIGNS						
Date	Heart Rate	Respiration Rate	Blood Pressure			

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DENTAL X-RAY CONSENT & HIPAA FORM

Dental x-rays allow the dentist to diagnose conditions that cannot be detected during a clinical examination. Dental x-rays detect much more than just cavities. For example, x-rays may be needed to diagnose bone disease, evaluate injuries, or plan orthodontic treatment. If dental problems are found and treated early, before that become visible or painful, dental care is much more comfortable and affordable.

Dental x-rays do expose patients to radiation. The radiation is a very small dose, similar to all day in the sunshine. Every protection is provided to the patient and exposure is purposely small.

Please select which option is appropriate for you with a check mark and then signing and dating below.

_____ Dental x-rays may be taken on me today.

I do no wish to have dental x-rays taken on me today.

Patient HIPAA Information:

I understand that I have certain right to privacy regarding my protected health information. These rights are given to me under the Health Insurance Portability and Accountability Act of 1996 (HIPAA).

I have also been informed of and given the right to review and secure a copy of any radiograph taken in the office.

Patient Name (please print)	
Patient Signature (or Parent/Guardian)	

Date	



X-RAY REQUEST AND RELEASE FORM

DATE_____

Patient Name: _____

Requested by (if other than patient i.e., parent or guardian):

Relationship to patient: ______

Exam Date(s) Requested:	
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Radiographs to be printed and given to patient or requestee.

I, ______ authorize the release of the X-Rays and am in receipt of said xrays.

Signature of Patient or Requestee: ______

Release by: (faculty signature) _____



DENTAL ASSISTING DEPARTMENT 205.929.3440

Date: _____

______ was seen at the Lawson State dental clinic on ______(date) for

limited dental x-rays exposure.

Upon evaluation of the radiographs, the person stated above should seek dental care for:

T. Ray, DMD

Clinical Dentist

trayconnell@lawsonstate.edu